



International Society for Southeast Asian Agricultural Sciences (ISSAAS)
in collaboration with
Tokyo University of Agriculture (Tokyo NODAI)
Society for Agricultural Education Research Development Abroad (SAEDA)
Japanese Society for Tropical Agriculture (JSTA)



ISSAAS 2014 Program

20th Founding Anniversary Celebration & International Congress and General Meeting

“Agricultural Changes in Southeast Asia: Past, Present and Future”

November 8-10, 2014

NODAI Academia Center, Tokyo University of Agriculture, Tokyo, Japan

Congress Schedule

Nov 7 (Fri)

Arrival of Participants

19:00 Board Meeting of ISSAAS at Department of International Agricultural Development “Gakka” Meeting Room, 3F Building 2

Nov.8 (Sat)

08:00 Registration at YOKOI Hall (~11:30)

09:00 Opening Ceremony and General Assembly at YOKOI Hall

10:00 Keynote Lectures at YOKOI Hall

12:00 Lunch Break at Room 431, 442, 444, Building 1

13:00 Plenary Sessions at Room 443, Building 1

15:00 Coffee Break at Room 431, Poster Session (Rooms 421-426) and Company Booth (Room 431) Visit

15:30 Scientific Presentations at Rooms 311, 312, 313, 331, 321, 322, 411, 413 (please refer to the Program for Scientific Presentations)

18:00 Welcome Reception at GREEN Restaurant (~20:00)

Nov 9 (Sun)

09:00 Scientific Presentations

10:30 Coffee Break at Room 431, Poster (Rooms 421-426) and Company Booth (Room 431) Visit

11:00 Scientific Presentations at Rooms 311, 312, 313, 331, 321, 322, 411, 413

12:30 Lunch Break at Room 431, 442, 444, Building 1

13:30 Scientific Presentations at Rooms 311, 312, 313, 331, 322, 411, 413

15:00 Coffee Break at Room 431, Poster Session (Rooms 421-426) and Company Booth (Room 431) Visit

15:30 Scientific Presentations at Rooms 311, 312, 313, 331, 322, 411, 413

18:00 SAYONARA party at GREEN Restaurant (~20:00)

Nov. 10 (Mon)

Congress Tour

*Only participants who have booked in advance can join the tour. See next page for the tour details.

Congress Registration

Registration is from 8:00am to 11:30 on 8 November 2014 (Saturday) at YOKOI Hall, Basement of NODAI Academia Center, Tokyo University of Agriculture. From 12:00nn onwards on 8 November 2014, registration is at Room 441 Building 1. The Congress Secretariat only accepts payments in YEN. Kindly have your money converted to YEN at the airport.

Scientific Presentation & Poster Session

The allotted time for each oral presentation is 15 minutes (12 minutes for presentation and 3 minutes for Q&A). Kindly submit your Powerpoint presentation (in PDF file) to issaas14@nodai.ac.jp in advance. Set-up for poster session is from 12:00nn on 8 November 2014 at Rooms 321-324, Building 1.

Sessions at a Glance

Date & Time	I (311)	II (312)	III (313)	IV (331)	V (321)	VI (322)	VII (411)	VIII (413)
Day 1; Nov. 8 (Sat) 15:00~17:15	I-A-1 Pl. Production Simplicio MEDINA and Rie MIYAURA	II-A-1 Pl. Production Takashi SHINOHARA	III-A-1 Pl. Production Abdul Shukor JURAIMI	IV-A-1 Pl. Production I Wayan SUPARTHA and Florence ZAPICO	V-B-1 Agricultural Chemistry OLIVA C. RUMA and M. UCHINO	VI-C-1 Aquatic Sciences Sherrilyn M. RASDAS	VII-G-1 Social Sciences Yoichi IZUMIDA	VIII-G-1 Social Sciences Juwaidah SHARIFUDDI N
Day 2; Nov. 9 (Sun) 09:00~10:30	I-A-2 Pl. Production Chairs; Kim OK-KYUNG and Sedyo HARTONO	II-A-2 Pl. Production Nguyen Thi Bich THUY and Bambang PURWAKO	III-A-2 Pl. Production Sombat CHINAWONG	IV-A-2 Pl. Production Natividad C. CALPATURA	V-G-2 Social Sciences Tran Huu CUONG	VI-C-2 Aquatic Sciences SAIWATI	VII-G-2 Social Sciences Eden PLADOZO	VIII-G-2 Social Sciences Yusman SYAUKAT
Day 2; Nov. 9 (Sun) 11:00~12:30	I-A-3 Pl. Production H. SHINOHAR A and S.H. HIDAYAT	II-A-3 Pl. Production Dewa SUPRAPTA	III-A-3 Pl. Production Eileen C. BERNARDO	IV-D-3 Forest Science Sermsiri CHANPRAME and Guillermo S. RILLON Jr.	V-G-3 Social Sciences F.B. GAPIDO	VI-F-3 Animal Life Science Maki HAYASHIDA and Lourdita A. LLANTO	VII-G-3 Social Sciences Julieta de los REYES	VIII-G-3 Social Sciences R. PAELMO
Day 2; Nov. 9 (Sun) 13:30~15:00	I-A-4 Pl. Production DADANG	II-A-4 Pl. Production Mui-Yun WONG	III-A-4 Pl. Production Samsia I. TILEND and Chulleemas Boonthai IWAI	IV-E-4 Agro-engineer ing and Landscape Fernando C. SANCHEZ Jr. and H. NARIOKA		VI-F-4 Animal Life Teresita PEQUENA and HUSUMAINI	VII-G-4 Social Sciences R. OKTAVIANI	VIII-G-4 Social Sciences Siti JAHROH
Day 2; Nov. 9 (Sun) 15:30~17:15	I-A-5 Pl. Production Hironobu SHIWACHI and Mohd. Yusop RAFI	II-A-5 Pl. Production Nina Nocon- SHIMOGUCHI	III-A-5 P. Production Mami IRIE	IV-E-5 Agro-engineer ing and Landscape Endang Purnama DEWI and Jeffrey L. R. BAREM		VI-F-5 Animal Life Science F. Balute GAPIDO and Seksom ATTAMANGK UNE	VII-G-5 Social Sciences Kazuhiko HOTTA	VIII-G-5 Social Sciences Ma Teraesa B
Days 1 and 2	Poster sessions at Rooms 421,422,423,424,425 and 426 (Nov.8 13:00~Nov.9 16:00) .							

I-VIII: Session Number
() ; Room Number
A~G; Category Number

Program A Plant Production and Environmental Agriculture

Nov 8 15:30~17:00 I-A-1

Chairs; **Simplicio MEDINA and Rie MIYAURA**

THE EFFECT OF FISHPOND SEDIMENT AND FISHPOND WATER TO THE CHANGES OF SOIL CHEMICAL PROPERTIES AND PRODUCTION OF SWEET POTATO IN THE PETIR VILLAGE, DARMAGA BOGOR, INDONESIA ARIEF HARTONO¹ AND KENJI YOKOTA² ¹FACULTY OF AGRICULTURE, BOGOR AGRICULTURAL UNIVERSITY, INDONESIA, ²DEPARTMENT OF APPLIED BIOLOGY AND CHEMISTRY, TOKYO UNIVERSITY OF AGRICULTURE, SETAGAYA, JAPAN

INFLUENCE OF VERMITEA AS FOLIAR FERTILIZER IN THE GROWTH AND YIELD OF "SIBUYAS TAGALOG" (*Allium cepa* L. var. *gr. aggregatum*) **Mary Yole Apple Declaro-Ruedas** Occidental Mindoro State College, **Emmanuel G. Ruedas** Central National High School, San Jose, Occidental Mindoro

EFFECTIVENESS OF INDIGENOUS RHIZOBACTERIA AS THE AGENT OF BIOLOGICAL WEED CONTROL TRESJIA C. RAKIAN¹), LA KARIMUNA¹), MUHAMMAD TAUFIK, GUSTI A.K. SUTARIAT¹), MUHIDIN¹) AND YULIUS B. PASOLON FACULTY OF AGRICULTURE, HALU OLEO UNIVERSITY INDONESIA

CONSERVATION AGRICULTURE WITH SOIL HEALTH: OPTIMAL FERTILIZATION RATE FOR TOMATO (*Lycopersicon esculentum* Mill. L) ON *INCEPTISOLS* **Izhar, L.^a), Susila, A. D.^b), and Purwoko, B. S.^b - ^a)** Assessment Station for Agricultural Technology (ASAT) for Riau Island Province, IAARD, ^b) Department of Agronomy and Horticulture, Faculty of Agriculture, Bogor Agricultural University, Indonesia

Treatment with Rhizobacterium *Enterobacter cloacae* A17K1a Effective to Reduce the Use of Synthetic Chemical Fertilizer and Increase the Yield of Rice **Dewa Ngurah Suprpta, Ni Made Intan Maulina and Khamdan Khalimi** Laboratory of Biopesticide Faculty of Agriculture Udayana University, Indonesia

EFFECT OF INTEGRATED NUTRIENT MANAGEMENT AND INTERCROPPING ON YIELD AND YIELD COMPONENTS OF CORN AND SOYBEAN **Almaz, M., R.A. Halim, H. Aminuddin, and M.Y. Martini** Faculty of Agriculture Universiti Putra Malaysia, Malaysia

Nov 9 09:00~10:30 I-A-2

Chairs; **Kim OK-KYUNG and Sedyo HARTONO**

IDENTIFICATION AND MOLECULAR GENETIC CHARACTERIZATION OF MICROORGANISMS ASSOCIATED WITH VASCULAR STREAK DIEBACK DISEASE ON CACAO IN BALI **G.N. Ait Susanta Wirya, I Gede Rai Maya Temaja, I Made Sudana, I Putu Sudiarta, Fransiska Kusuma Dewi** Udayana University, Denpasar Bali, Indonesia

NUCLEOTIDE SEQUENCES OF THE *Nib* GENES OF THREE INDONESIAN ZUCCHINI YELLOW MOSAIC VIRUS ISOLATES **Muhammad Danial Rahim¹), Rifni Nikmat¹), Andi Nasruddin¹) and Rinaldi Sjahri²)** ¹) Faculty of Agriculture Hasanuddin University, Makassar, Indonesia

DEVELOPMENT OF MULTIPLEX PCR FOR RAPID DETECTION OF RICE VIRUSES IN INDONESIA **SEDYO HARTONO¹), SUPRIHANTO²), ASISTA FATMA¹), I NYOMAN WIDIARTA²), AND SUSAMTO SOMOWIYARJO¹)** ¹) FACULTY OF AGRICULTURE, GADJAH MADA UNIVERSITY, YOGYAKARTA, ²) RICE RESEARCH CENTER OF INDONESIA, SUKAMANDI, WEST JAVA, INDONESIA

IDENTIFICATION AND CHARACTERIZATION OF PAPAYA RINGSPOT VIRUS FROM INDONESIA **Sri Hendrastuti Hidayat*, Gita Lestari, Sari Nurulita, Suryo Wiyono** Department of Plant Protection, Faculty of Agriculture, Bogor Agricultural University

First Report of Tobamovirus as a causal pathogen of mosaic diseases on *Petunia x hybrid* **Sri Sulandari, Sedyo Hartono and Suryani Titi Astuti.** **Sulandari,S** Faculty of Agriculture, UGM, Indonesia.

APPLICATION OF AGERATUM CONYZOIDES TO CONTROLLING PHYTOPHTHORA POD ROT DISEASE, *PHYTOPHTHORA PALMIVORA* ON CACAO FIELD **Sylvia Sjam, Untung Surapati, Ade Rosmana, M. D. Rahim, Vien Sartika Dewi, Amelia Limbongan and Rini Kartika** Department of Plant Pests and Diseases Faculty of Agriculture, Hasanuddin University, Indonesia

Nov 9 11:00~12:30 I-A-3

Chairs; **H.SHINOHARA and S.H.HIDAYAT**

CHARACTERIZATION OF CULTURABLE BACTERIAL ENDOPHYTES FROM ORCHIDS AND THEIR INFLUENCE TO PROMOTE THE PLANT GROWTH **Tri Joko^{1*}, Dewi Nur Anggraeni², Mery Irianti³, Budi Setiadi Daryono², Saifur Rohman³** ¹Faculty of Agriculture, ²Faculty of Biology, and ³Graduate School of Biotechnology, Universitas Gadjah Mada, Yogyakarta, Indonesia

FARMERS' PEST MANAGEMENT PRACTICES IN VEGETABLE PRODUCTIONS THROUGH DIFFERENT PROCUREMENT SYSTEM **¹Halimatunsadiyah Abu Baka, ¹Norida Mazlan, ²Dzolkhifli Omar and ³Nitty Hirawaty Kamarulzaman** ¹Department of Agriculture Technology, ²Department of Plant Protection and ³Department of Agribusiness and Information Systems, Faculty of Agriculture UPM Serdang, Selangor, Malaysia

INDUCTION OF HAIRY ROOTS USING *Agrobacterium rhizogenes* ON IN-VITRO EXPLANTS OF *Chlorophytum borivilianum* **Jaafar Juju Nakasha¹, Uma Rani Sinniah^{1*}, Noor Azmi Shahaaruddin², Siti Aishah Hassan¹ and Sreeramanan Subramaniam³** ¹Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, ² Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, ³ School of Biological Sciences, Universiti Sains Malaysia, Malaysia

Postharvest quality and shelf life of papaya cv. IPB9 (*Carica papaya* L.) at different picking days **Yohanes Aris Purwanto^{1,2}), Nur Arifiya¹), I Wayan Budiastara¹), Sutrisno¹), Emmy Darmawati¹) Yoshio Makino³), and Seiichi Oshita³)** ¹)Department of Mechanical and Biosystem Engineering, ²)Center for Tropical Horticulture Studies, Bogor Agricultural University, Indonesia ³)Graduate School of Agricultural and Life Sciences The University of Tokyo, Tokyo Japan

Harvest age effects on yield and quality of Kenaf (*Hibiscus cannabinus* L.) for animal feed and fibre **Masnira. M. Y.¹, Halim. R. A.¹, Rafii M. Y.¹ and Mohd Jani, S.¹** ¹ Faculty of Agriculture, Universiti Putra Malaysia ² Rice and Industrial Research Crop Centre, MARDI Serdang, Malaysia

PLANT PATHOGEN DNA MACROARRAY DETECTION SYSTEM USING A CHROMOGENIC ASSAY **Mui-Yun Wong** Department of Plant Protection, Faculty of Agriculture, and Institute of Tropical Agriculture, Universiti Putra Malaysia, Serdang, Malaysia; and **Christine D. Smart**, Department of Plant Pathology and Plant-Microbe Biology, Cornell University, USA.

Nov 9 13:30~15:00 I-A-4

Chair: **DADANG**

TOXICITY LEVEL OF INSECTICIDE USED IN RICE PEST MANAGEMENT AND ITS RESISTANCE LEVELS ON BROWNPLANTHOPPER IN MALAYSIA. **Norida Mazlan, Nurul Atiqah Ahmad and Muhammad Adip Mohd Tamami** Department of Agriculture Technology Faculty

of Agriculture, Universiti Putra Malaysia.

MORPHOLOGICAL DESCRIPTIONS OF MYTHIMNA VENALBA (MOORE) AT ALL LIFE STAGES Nur Athiqah M.Y., Nur Azura, A. and Lau, W. H. DEPARTMENT OF PLANT PROTECTION, FACULTY OF AGRICULTURE, UNIVERSITI PUTRA MALAYSIA, MALAYSIA

GENETIC COMPATIBILITY OF CLEARFIELD® RICE WITH WEEDY RICE MORPHOTYPES IN MALAYSIA Nur Hidayatul Shuhada Anuar¹, Norida Mazlan¹, Siti Nor Akmar Abdullah¹, Abdul Shukor Juraimi² and Mohd Rafii Yusop² ¹Department of Agriculture Technology, ²Department of Crop science Faculty of Agriculture, Universiti Putra Malaysia.

ECOBIOLOGY OF APPLE SNAILS, POMACEA SPP. IN RICE FIELDS IN PENINSULAR MALAYSIA ¹R, Muhamad, ¹Arfan, A.G., ¹Omar, D., ²Nor Azwady A.A. ¹Faculty of Agriculture, ²Faculty of Science, Universiti Putra Malaysia, Malaysia.

FRUIT FLIES INFESTATION ON MANGO (*MANGIFERA INDICA* L.) AND THE ASSOCIATED PARASITOIDS IN PENINSULAR MALAYSIA SALMAH, M.¹, NUR AZURA, A.¹, RITA, M.¹, LAU, W.H.¹, MARINA, R.¹ AND AHMAD, H.² ¹Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia. ²School of Biological Sciences, Universiti Sains Malaysia, Malaysia

IDENTIFICATION OF SCAR-RAPD MARKER FOR THE DETECTION OF SOMACLONAL VARIATION IN CRYOPRESERVED *DENDROBIUM SONIA*-28 ORCHID Sreeramnan Subramaniam^{a*}, Tan Chai Chiah^a, Ranjetta Poobathy^a, Chai Pui Fun^a, and Uma Rani Sinniah^b ^aSchool of Biological Sciences, Universiti Sains Malaysia (USM), Penang, ^bDepartment of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia

MOLECULAR IDENTIFICATION OF IMMATURED PARASITOIDS OF LEPIDOPTERAN RICE PESTS Nur Azura, A., Nur Athiqah, M. Y. and Lau, W. H. Both

Nov 9 15:30-17:00 I-A-5

Chairs: Hironobu SHIWACHI and Mohd. Yusop RAFII

WATER CONSUMPTION OF RICE VARIETIES AS RESPONSE TO HIGH TEMPERATURE Ahmad Junaedi¹, Sri Astuti¹, Jumiatiun¹, Hafith Furqani¹, Iskandar Lubis¹, Muhamad Achmad Chozin¹, Akira Miyazaki², Yoshinori Yamamoto² ¹ Faculty of Agriculture, Bogor Agricultural University, Indonesia ²Faculty of Agriculture, Kochi University, Japan

Ethylene Regulates Physiological Responses of Sorghum [*Sorghum bicolor* (L.) Moench.] to Phosphorus Deficiency and Aluminum Toxicity Stresses Nurul Fauziah, Sintho Wahyuning Ardie, Didy Sopandie* Department of Agronomy and Horticulture, Faculty of Agriculture, Bogor Agricultural University (IPB), Bogor, Indonesia

INCORPORATION OF ELEMENTAL SULFUR IN THE MANUFACTURE OF FERTILIZER FROM ORGANIC WASTES A.Fernandez¹, A. Amador², M.E. López-Mosquera³, y A. Lopez-Fabal⁴. ¹University of Southeastern Philippines. Tagum, Philippines. ²Agroamb Prodalt S.L. Calzada das Gándaras 11, Loc. bajo dcha. 27003-Lugo. ³IBADER. Universidad de Santiago de Compostela. Campus Universitario s/n. ⁴Escuela Politécnica Superior. Universidad de Santiago de Compostela. Campus Universitario s/n. 27002-Lugo.

GENETIC EROSION OF TRADITIONAL RICE LANDRACES IN SARANGANI PROVINCE, PHILIPPINES: IMPLICATIONS FOR FOOD SECURITY IN THE UPLANDS **Catherine Hazel Aguilar¹, Florence Lasalita-Zapico¹, Angelie Abistano¹, Josephine Carino-Turner² and Lolymer Jacinto-Reyes³ ¹Science Department, College of Natural Sciences and Mathematics, Mindanao State University-Fatima, ²Galing Foundation Incorporated, DARBCI Homes, ³Sociology Department, College of Social Sciences and Humanities, Mindanao State University-Fatima, General Santos City, The Philippines

GROWTH AND YIELD PERFORMANCE OF BANANA (*Musa acuminata* L.) AS AFFECTED BY DIFFERENT FARM MANURES Brenda C. Panelo Pangasinan State University-Sta. Maria Campus, Philippines

Nov 8 15:30-17:15 II-A-1

Chair: Takashi SHINOHARA

REGENERATION OF GINGER THROUGH TISSUE CULTURE FOR QUALITY SEED PRODUCTION CYNTHIA G. KISWA and JAKE L. GALIAN BENGUET STATE UNIVERSITY, NORTHERN PHILIPPINES ROOT CROPS RESEARCH AND TRAINING CENTER, LA TRINIDAD, BENGUET PHILIPPINES

IMPROVED SHELF LIFE OF FRESH BURO THROUGH VACUUM PACKAGING Raquel C. Pambid, Wilma M. De Vera and Christian Soriano Pangasinan State University, Philippines

Heat Conditioning Prior to Extended Hot Water Dip Prevents Internal Breakdown of Immature Mango (*Mangifera indica* L. cv. 'Carabao') Fruits Anna Reah O.Garcia¹ and Elda B.Esquerre² ¹Davao National Agricultural School, Davao, Philippines ²University of the Philippines Los Banos, College, Laguna, Philippines

DISASTER RISK REDUCTION AND MANAGEMENT PROGRAMS OF THE 5th AND 6th DISTRICT OF THE PROVINCE OF PANGASINAN, PHILIPPINES Cesar G. Della, Elisa S. Della & C.Cocal Pangasinan State University, Philippines

KNOWLEDGE ON CLIMATE CHANGE AND ADAPTATION MEASURES OF FARMERS IN FLOOD PRONE AREAS IN ISABELA, NORTHERN PHILIPPINES Eileen C. Bernardo Department of Environmental Science and Management, College of Forestry and Environmental Management, Isabela State University, Isabela, Philippines

PHYSIOLOGICAL SCREENING OF SARANGANI UPLAND RICE VARIETIES FOR SALINITY TOLERANCE DURING EARLY GROWTH STAGES Catherine Hazel Aguilar^a, Lyn Jean Laniton, Reygeine Lincay, Roman Abdul Kadir Duldoco, Jacy Deneb Leandres and Florence L. Zapico College of Natural Sciences and Mathematics, Mindanao State University-Fatima, The Philippines

RESPONSE OF 'SABA' BANANA (*Musa* BBB) TO LOW OXYGEN LEVELS Artes, L. A.¹ and Lizada, M.C.C.² ¹ University of the Philippines Los Banos, Philippines ² Professor Emeritus, University of the Philippines Diliman, Philippines

Nov 9 09:00-10:30 II-A-2

Chairs: Nguyen Thi Bich THUY and Bambang PURWAKO

PERFORMANCE OF RED BEANS AS AFFECTED BY DIFFERENT PLASTIC MULCHING MATERIALS ELENA ORANZA BIADO COTABATO CITY STATE POLYTECHNIC COLLEGE, Philippines,

HYPOGLYCEMIC EFFECT OF SWEET SORGHUM (*Sorghum bicolor*, Linn.) SYRUP ON THE BLOOD GLUCOSE LEVEL IN

ALLOXAN-INDUCED DIABETIC WHITE MICE Elisa S. Della, Della, C.G. and Della, M.E. S. Pangasinan State University

IDENTIFICATION AND PRELIMINARY SCREENING OF NITROGEN-FIXING AND PHOSPHATE SOLUBILIZING ACTIVITIES OF COIX LACRYMA-JOBI L. (ADLAI)-ASSOCIATED BACTERIA Kathleen D.C. Vasquez¹, Nathaniel R. Alcantara², and Emmanuel L. Bernardo³ ^{1,2} Microbiology Division, Institute of Biological Sciences, University of the Philippines ³ Crop Science Cluster, College of Agriculture, University of the Philippines Los Baños, Philippines

DISASTER RISK REDUCTION/CLIMATE CHANGE ADAPTATION GOOD AGRICULTURAL PRACTICES FOR RAINFED AND UPLAND AGRO-ECOLOGICAL ZONES IN BICOL REGION, PHILIPPINES Luis O. AMANO, Bicol University Research and Development Center, Legazpi City, PHILIPPINES Viola L. AMANO, Bicol University College of Agriculture and Forestry, Guinobatan, Albay, PHILIPPINES Angelo P. CANDELARIA, MM Bicol University Research and Development Center, Legazpi City, PHILIPPINES 4500 Arnulfo M. MASCARIÑAS, National Lead Consultant and Director, Bicol University Research and Development Center, Legazpi City, PHILIPPINES

PARTICIPATORY VARIETAL SELECTION OF SUBMERGENCE-TOLERANT RICE VARIETIES Menchie R. del Rosario Laguna State Polytechnic University Siniloan, Laguna, Philippines

PRODUCTIVITY OF GRAFTED CUCUMBER USING WAX GOURD AND SQUASH ROOTSTOCKS DANILO R. PINERA, REBECCA PINERA and ARCHIEVAL B. SABADO

Nov 9 11:00-12:30 II-A-3

Chair: Dewa SUPRAPTA

FIBER MORPHOLOGY AND RECOVERY, CHEMICAL COMPOSITION AND PULP PROPERTIES OF ABACA (*MUSA TEXTILIS* NEE) CV. INOSA HARVESTED AT DIFFERENT STAGES OF STALK MATURITY MORENO, LUZ ORDIZ and CALIXTO M. PROTACIO Visayas State University, Visca, Baybay City, Leyte, Philippines, University of the Philippines, Los Baños, Laguna, Philippines.

FARMING SYSTEM APPROACHES OF LIMITED-RESOURCE FARMS IN MAGUINDANAO, PHILIPPINES NASRUDIN A. BUISAN,² AND DANILO S. JOSUE,³ ² COTABATO STATE POLYTECHNIC COLLEGE, COTABATO CITY ³ MINDANAO STATE UNIVERSITY-MAGUINDANAO, DATU ODIN SINSUAT, MAGUINDANAO

INDUCTION OF RESISTANCE IN ABACA AGAINST *Fusarium* WILT CAUSED BY *Fusarium oxysporum* f. sp. *cubense* (Foc) ^{1,2}ROBELYN T. PIAMONTE, ¹JULIE ROSE C. CANIAMO, ²JOFIL A. MATIOM, ²RUBEN M. GAPASIN AND ¹CHRISTIAN JOSEPH R. CUMAGUN ¹Crop Protection Cluster, College of Agriculture, University of the Philippines Los Baños, College, Laguna, Philippines and ²National Abaca Research Center, Visayas State University, Visca, Baybay City, Leyte, Philippines

ANALYSIS OF STATISTICAL INTERPOLATION METHODS FOR HANDLING PROBLEM DATA FROM AGRICULTURAL EXPERIMENTS Rocky T. Marcelino¹ and Emmanuel L. Bernardo² ¹Statistical Modeling Division, Institute of Statistics, College of Arts and Sciences, University of the Philippines Los Baños ²University Research Associate I, Plant Tissue Culture Laboratory, Crop Science Cluster, College of Agriculture, University of the Philippines Los Baños

EARLY IMPACT OF COVER CROPS ON GREENHOUSE GAS EMISSIONS AND SOIL MICROBIAL ACTIVITIES A.A. MARTIN, JR* and D. E. STOTT** *Isabela State University, Echague, Isabela, Philippines **USDA-ARS, National Soil Erosion Research Lab. USA

MICROBIAL POPULATIONS AND CHEMICAL PROPERTIES OF SOILS UNDER VARIOUS FARMING SYSTEMS IN BATANGAS, PHILIPPINES Rosario G. Monsalud¹, Marilyn B. Brown¹, Armi R. Creencia¹ and Florentino C. Monsalud² National Institute of Molecular Biology and Biotechnology (BIOTECH), University of the Philippines Los Baños, ²Agricultural Systems Cluster, College of Agriculture, University of the Philippines Los Baños, College, Philippines

Nov 9 13:30-15:00 II-A-4

Chair: Mui-Yun WONG

RESPONSE OF HYBRID RICE VARIETIES TO NUTRIENT MANAGEMENT RUFINO B. CALPATURA ¹ and MARILOU B. AGAID ² ¹ Isabela State University, Echague, Isabela ²Abulug Seed Farm, Abulug, Cagayan, Philippines

Flowering And Fruit Set Of Roseleaf Raspberry (*Rubus Rosifolius* Sm.) Under Low Elevation And Its Acclimation To High Temperature Conditions Shalan Joseph E. Kitma¹ and Calixto M. Protacio² Crop Science Cluster, College of Agriculture, University of the Philippines Los Baños Philippines, Philippines

Influence of different rates of water hyacinth on the yield response of corn TILENDO, SAMSIA I., I Cotabato City State Polytechnic College, Cotabato City, Philippines

IN-VITRO ASSAY OF CYTOKININ-CONTAINING MALUNGGAY (*Moringa oleifera* Lam.) LEAF EXTRACT USING CARROT (*Daucus carota* L.) ROOT DISCS Trizhia Marie B. Silva¹, Evalour T. Aspuria² and Antonio C. Laurena³ University of the Philippines Los Baños, Laguna, Philippines

AGROBIODIVERSITY IN MT BANAHAW QUEZON PROVINCE PHILIPPINES AM Wagan¹, RC Ancog², AB Araza¹, R Galagate¹, LL Tamsin Jr¹, Evangelista¹, M.S. Guerrero¹ and SAG Rodriguez¹ ¹ Agricultural Systems Cluster-College of Agriculture, University of the Philippines Los Baños; ²School of Environmental Science and Management, University of the Philippines Los Baños, Philippines

LOCATION AND CULTURAL ADAPTABILITY TRIAL OF AN HEIRLOOM VARIETY OF BLACK RICE: INITIATIVE TOWARDS DEVELOPMENT OF RESEARCH-BASED ORGANIC PRODUCTION PRACTICES Mario B. Marigmen Graduate School, Occidental Mindoro State College San Jose, Philippines

Nov 9 15:30-17:00 II-A-5

Chair: Nina Nocon-SHIMOBUCHI

WOMEN IN VEGETABLE PRODUCTION AND CLIMATE CHANGE ADAPTATION IN MAGALANG, PAMPANGA, PHILIPPINES ROGELIO D. COSIO PAMPANGA AGRICULTURAL COLLEGE

The Organic Farmers in the Philippines: Knowledge, Attitudes and Practices Gloria Luz M. Nelson¹, Girlie Nora A. Abrigo¹ Joyce A. Ocampo¹ and Lucille Elna P. De Guzman² Rowena P. de Guzman¹ ¹DSS, CAS, UPLB, College, ²CSC, CA, UPLB, Philippines

COMMUNICATION APPROACHES IN THE AGRICULTURAL EXTENSION PROGRAMS OF OCCIDENTAL MINDORO STATE COLLEGE (OMSC) Mary Yole Apple Declaro-Ruedas, Mikaela L. Venturina Occidental Mindoro State College San Jose, Occidental Mindoro, Philippines

ASSESSMENT OF FARMERS' KNOWLEDGE, ATTITUDE AND PERCEPTIONS TOWARDS THE USE OF ORGANIC FERTILIZER: A

Case of Cagayan Valley, Philippines ARTEMIO A. MARTIN, JR. Isabela State University, Philippines

EMPOWERING THE ROLE OF WOMEN FARMER GROUP IN MANAGING PEKARANGAN –A STRATEGY TO FULFILL BALANCED NUTRITION NEEDS OF THE HOUSEHOLD FAMILY Nurhayati H.S. Arifin¹, Hadi Susilo Arifin¹, and Made Astawan² ¹Department of Landscape Architecture, Faculty of Agriculture ²Department of Food Science and Technology, Faculty of Agricultural Technology, Bogor Agricultural University (IPB), Indonesia

ORGANIC-BASED PRODUCTS AS A COMPONENT OF INTEGRATED PEST MANAGEMENT IN ORGANIC VEGETABLES: A JOURNEY FROM THE LABORATORY TO THE FARM Luciana M. Villanueva¹, Jocelyn C. Perez², Ammie S. Dayao³ and Jezreel Zyra D. Ibis⁴ ^{1,2} Benguet State University, La Trinidad, Benguet, Philippines

Nov 8 15:30-17:00 III-A-1

Chair: Abdul Shukor JURAIMI

Monoclonal Antibody against Zearalenone and Development of Rapid ELISA kit Ratchanee Hongprayoon^{1,4}, Somluck Pumrachat¹, Kittisak Insawake^{1,4,5}, Suwanna Kladpan², Warapa Mahakarnchanakul³, Srihunsu Malichan¹ and Thanapoom Maneeboon² ¹Department of Plant Pathology, Faculty of Agriculture at Kamphaeng Saen; ²Scientific Equipment and Research Division, Kasetsart University Research and Development Institute; ³Department of Food Science and Technology, Faculty of Agro-Industry; ⁴Center for Agricultural Biotechnology, Kasetsart University, Thailand; ⁵Center of Excellence on Agricultural Biotechnology, Bangkok, Thailand

Enhancement of storage life and quality maintenance of orange using *Aloe vera* coating Nguyen Thi Bich Thuy, Nguyen Thi Hanh, Le Duc Tien Vietnam National University of Agriculture, Vietnam

Effect of Rice Straw Managements with Tillage Systems and Fertilizer Types on Growth, Yield and Carbon Stock in Rice Suphachai Amkha, Bangon Ubong, and Thongchai Mala Department of Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, Kamphaeng Saen Campus, Thailand

NUTRIENT MANAGEMENT OF TRANSPLANTED SWEET CORN: An Adaptation Strategy for Climate Change and Variability NATIVIDAD C. CALPATURA¹ and RUFINO B. CALPATURA² ^{1,2} Isabela State University, Echague, Isabela, Philippines

Characterization of Boron Transporter Gene in Oil Palm (*Elaeis guineensis* Jacq.) Chanakan Laksana^{1,2,5} Toru Fujiwara^{3,4} and Sontichai Chanpramee^{1,2,5} ¹ Center for Agricultural Biotechnology, Kasetsart University and The Center of Excellence on Agricultural Biotechnology ²Center for Advanced Studies for Agriculture and Food, Kasetsart University, Thailand ³ Biotechnology Research Center, University of Tokyo, JAPAN ⁴Graduate School of Agricultural and Life Science, University of Tokyo, JAPAN ⁵ Department of Agronomy, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, THAILAND

The Effectiveness of Consortium of Microbial Inoculants in Controlling Damping off Disease (*Rhizoctonia solani*) in Chili. Noor Istifadah¹, Ai Melawati², Pujawati Suryatmana³, Betty Natalie Fitriatin³ ¹ Dept. of Plant Pests and Diseases, Agriculture Faculty, Universitas Padjadjaran, Indonesia, ² Almunus of Agrotechnology Program Study, Agriculture Faculty, Universitas Padjadjaran, Indonesia ³ Dept. of Soil Sciences Agriculture Faculty, Universitas Padjadjaran, Indonesia.

Nov 9 09:00-10:30 III-A-2

Chair: Sombat CHINAWONG

BOTANICAL CONCOCTIONS TO MITIGATE ASIAN CORN BORER INFESTATION ON GLUTINOUS CORN NATIVIDAD C. CALPATURA Isabela State University, Echague, Isabela, Philippines

TRAINING THE TRAINERS: UPSCALING THE TECHNICAL CAPABILITIES OF MUSHROOM GROWERS IN ILOCOS REGION, PHILIPPINES GEARED TOWARDS ENTERPRISE DEVELOPMENT Cesar G. Della and Elisa S. Della Pangasinan State University, Philippines

DROUGHT ADAPTATION OF TRADITIONAL UPLAND RICE (*Oryza sativa* L.) VARIETY IN MARGINAL UPLANDS Renante D. Taylaran^{1*}, Agripino G. Salva, Jr.², Elizar M. Elmundo¹ ¹Institute of Agriculture, Misamis Oriental State College of Agriculture and Technology, Claveria, Misamis Oriental ²Agricultural Technologist, Local Government Unit of Baungon, Bukidnon, Philippines

Preliminary Evaluation of Taro Germplasm under La Trinidad, Condition Simongo, D. K., L. M. Pacuz, and T. D. Masangcay Benguet State University, La Trinidad, Benguet, Philippines

HEAT – TREATED (BOILED) FULL-FAT SOYBEAN AS REPLACEMENT OF SOYBEAN MEAL IN BROILER DIETS ROGELIO T. TAMAYO CAYAN STATE UNIVERSITY- LALLO CAMPUS, Philippines

PRODUCTION OF TRUE-TO-TYPE STRAWBERRY PLANTING MATERIALS USING TISSUE CULTURE TECHNIQUE Milagros R. Dumaslan, Sergio T. Gayao, Julia A. Solimen Benguet State University, La Trinidad, Benguet, Philippines

Nov 9 11:00-12:30 III-A-3

Chair: Eileen C. BERNARDO

Revitalizing Cotton (*Gossypium* spp.) Production in Central Mindanao Philippines Oliver Cris C. Ubaub^{1*}, Leslie T. Ubaub² and Mujib A. Basha¹ ¹R&A Agrofarm Products, Inc., Marikina City, Philippines; ²Visayas State University, Philippines

IMPROVING LOCAL UPLAND RICE WITH MIXTURE MICROBA: RESISTANCE, YIELD AND REDUCE CHEMICAL FERTILIZERS Muhammad Taufik^{1*}, Gusnawaty HS¹, Andi Nurmas¹, and Syamsu Alam¹ ¹ Faculty of Agriculture, Universitas Halu oleo, Kendari, Southeast Sulawesi, Indonesia.

BIOLOGICAL FEATURES OF MALAYSIAN WEEDY RICE BIOTYPES Md Kamal Uddin¹, Abdul Shukor Juraimi¹, Muhammad Saiful Ahmad Hamdani¹, Azmi Man² and Md Parvez Anwar³ ¹Department of Crop Science, Universiti Putra Malaysia, ²Malaysian Agricultural Research and Development Institute, ³Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia.

THE TEMPORARY IMMERSION SYSTEM (TIS) FOR THE *IN VITRO* MASS PROPAGATION OF ABACA (*MUSA TEXTILIS* NEE) DUATIN, F.M. Y.,¹ KROSCHER, J.,² and GALAMBAO, M.B. ³TISSUE CULTURE LABORATORY, NATIONAL ABACA RESEARCH CENTER, VISAYAS STATE UNIVERSITY, VISCA, BAYBAY CITY, LEYTE, PHILIPPINES, ² INTERNATIONAL POTATO CENTER (CIP), GLOBAL PROGRAM OF INTEGRATED CROP AND SYSTEMS RESEARCH, PERU ³ DEPARTMENT OF PURE AND APPLIED CHEMISTRY, VISAYAS STATE UNIVERSITY, VISCA, BAYBAY CITY, LEYTE, PHILIPPINES

ROOT ENHANCING POTENTIAL OF PACLOBUTRAZOL IN THE *IN VITRO* CULTURE OF ABACA (*MUSA TEXTILIS* NEE)

DUATIN, F.M.Y., ^{1/}, J. G. JACOBE ^{2/} and CORTES, J.E.D. ^{3/ 12/} ABACA RESEARCH CENTER, VISAYAS STATE UNIVERSITY, VISCA, BAYBAY CITY, LEYTE, PHILIPPINES, ^{3/} VISAYAS STATE UNIVERSITY, VISCA, BAYBAY CITY, LEYTE, PHILIPPINES

ON-FARM ADAPTABILITY AND ACCEPTABILITY EVALUATION OF ELITE LINES IN DROUGHT-PRONE RAINFED AREAS OF BULACAN J.C. Mananguit, D.M.C. Dayag and N.J. Victori

Nov 9 13:30-15:00 III-A-4

Chairs: Samsia I.TILEND and Chuleemas Boonthai Iwai

Different Responses of Foxtail Millet Genotypes to Exogenous Application of Ethylene under Salt Stress Condition Sintho Wahyuning Ardie^{1*}, Nurul Khumaida¹, Amin Nur², Nurul Fauziah¹ ¹Faculty of Agriculture, Bogor Agricultural University (IPB), Jl. Meranti, IPB Darmaga Campus, Bogor, Indonesia, ²Indonesian Cereals Institute (ICERI), South Sulawesi, Indonesia

Diversity of Microorganisms in Conventional Farms Grown with Semi-temperate Vegetables, Strawberry and Cutflowers Under two Mountain Zones in Northern Philippines ASUNCION L. NAGPALA, JOVELYN C. ALABAT and MERIAM PANGANIBAN Department of Plant Pathology, College of Agriculture, Benguet State University, Philippines

PROMOTION OF UPLAND RICE GROWTH BY ACTINOMYCETES UNDER GROWTH ROOM CONDITION JAYVEE A. CRUZ, EVELYN F. DELFIN, NACITA B. LANTICAN and ERLINDA S. PATERNO ¹Philippine Rice Research Institute, Science City of Muñoz, Nueva Ecija, ²Institute of Biological Sciences (IBS), UPLB, ³Institute of Plant Breeding (IPB), UPLB, ⁴National Institute of Molecular Biology and Biotechnology (BIOTECH), UPLB

DETERMINATION OF THE OPTIMUM NITROGEN RECOMMENDED RATE FOR NSIC RC 298 AND NSIC RC 300 IN CAGAYAN VALLEY, PHILIPPINES Marilyn DC. Abad and Narcisa S. Aganon Quirino State University, Maddela, Quirino, Philippines

RESPONSE OF BITTER GOURD (*Momordica charantia* L. cv. Makiling) TO VARYING LEVELS OF CHEMICAL FERTILIZERS AND QSU-MADDELA VERMICAST Narcisa S. Aganon Quirino State University, Maddela, Quirino, Philippines

IMPROVEMENT OF NURSERY PROCEDURES FOR COMMERCIAL PRODUCTION OF TISSUE-CULTURED BANANA 'Cavendish' SEEDLINGS Remedios S. Flamiano¹, Alminda M. Fernandez² and Jeanette B. Madas¹ ¹Mindanao State University-General Santos City, Philippines ²University of Southeastern Philippines, Philippines

Nov 9 15:30-17:15 III-A-5

Chair: Mami IRIE

POTATO QUALITY PLANTING MATERIAL PRODUCTION FOR LIVELIHOOD/ ENTREPRENEURSHIP: TRAINING AND EXTENSION ACTIVITY CYNTHIA G. KISWA, PAZ A. DALANG and TERESITA D. MASANGCAY, BENGUET STATE UNIVERSITY, NORTHERN PHILIPPINES ROOT CROPS RESEARCH AND TRAINING CENTER, LA TRINIDAD, BENGUET PHILIPPINES

VERMICOMPOSTING TECHNOLOGY: CONVERTING CASSAVA INDUSTRIAL WASTE TO CASSAVA SAFETY PRODUCTION Chuleemas Boonthai Iwai^{1,2,3*}, Jiraporn Choeichit and Mongkon Ta-Oun ¹Faculty of Agriculture, Khon Kaen University ²Integrated Water Resource Management Research and Development Center in Northeast Thailand, Khon Kaen University ³The Research Developing and Learning Centre on Earthworm for Agriculture and Environment, Khon Kaen University, Thailand

STUDY SOME TECHNICAL FACTORS TO ORGANIC RICE PRODUCTION AT HANOI, VIETNAM Nguyen Hong Hanh, Pham Tien Dung Center for Organic Agriculture Promotion and Studies, Faculty of Agronomy, Hanoi University of Agriculture (HUA), Vietnam

EXTENSION OF STORAGE LIFE OF CALAMONDIN (*Citrofortunella microcarpa*) WITH HOT WATER TREATMENT AND MODIFIED ATMOSPHERE PACKAGING Agravante, J.U.¹, A.M.D. Espigol¹, E.B. Esguerra¹, T. Baba², Y. Kawai² ¹Postharvest Horticulture Training and Research Center, Postharvest and Seed Sciences Division, Crop Science Cluster, College of Agriculture, University of the Philippines Los Baños College, Philippines ²Tokyo University of Agriculture, Atsugi, Japan

DROUGHT SCREENING OF TRADITIONAL UPLAND RICE VARIETIES FROM SARANGANI, PROVINCE, PHILIPPINES Florence L. Zapico *, Catherine Hazel Aguilar, Lyn Jean Laniton, Reygeine Lincay, Roman Abdul Kadir Duldoco, and Jacy Deneb Leandres College of Natural Sciences and Mathematics, Mindanao State University-Fatima, The Philippines

OKRA SEEDS AS COFFEE BEAN SUBSTITUTE GEIL HAN G. ASTORGA, LANIE M. YANGA, FLORIE B. GAPIDO UNIVERSITY OF RIZAL SYSTEM, TANAY, RIZAL, PHILIPPINES

Effects of Snails on Community Structure of Aquatic Organisms and Rice Plant Growth in the Paddy Fields Vira Kusuma Dewi and Hironori Yasuda

Nov 8 15:30-17:00 IV-A-1

Chairs: I Wayan SUPARTHA and Florence ZAPICO

IPM OF PIGEON PEA POD BORER (*HELICOVERPA ARMIGERA HUBNER*) USING *SPODOPTERA LITURA* NUCLEOPOLYHEDRO VIRUS (SNPV) EULOGIO V. CARDONA JR and TERESITA D. MASANGCAY BENGUET STATE UNIVERSITY LA TRINIDAD, BENGUET, PHILIPPINES

Utilization of Essential Oil of Nutmeg (*Myristica fragrans* Houtt) as An Attractant of Fruit Fly (*Bactrocera dorsalis* complex) I Wayan Susila, I Wayan Supartha and Ketut Sumiartha Laboratory of Integrated Pest Management, Faculty of Agriculture, Udayana University Indonesia

Scelio sp. (HYMENOPTERA: SCELIONIDAE), AN EGG PARASITOID OF *Oxya japonica* THUNBERG (ORTHOPTERA: ACRIDIDAE) NINA MARYANA, MUHAMMAD RIDHO RASID, DINI YULIANI DEPARTMENT OF PLANT PROTECTION, FACULTY OF AGRICULTURE, BOGOR AGRICULTURAL UNIVERSITY

Searching and handling times of two predators, *Menochilus sexmaculatus* Fab. And *Micraspis lineata* (Thunberg) against *Bemisia tabaci* (Genn.) and *Mizus persicae* Sulz. Purnama Hidayat, Van Basten Tambunan, Keisha Disa Putrirama Department of Plant Protection, Faculty of Agriculture, Bogor Agricultural University

DEVELOPMENT OF BOTANICAL INSECTICIDE FORMULATION TO CONTROL PAPAYA MEALYBUG *PARACOCCLUS MARGINATUS* (HEMIPTERA: PSEUDOCOCCIDAE) TRIJANTI A. WIDINNI A., NINA MARYANA, DADANG DEPT. OF PLANT PROTECTION, FAC. OF AGRICULTURE, BOGOR AGRICULTURAL UNIVERSITY JL. KAMPER, KAMPUS IPB DARMAGA BOGOR INDONESIA

BIODIVERSITY OF SOIL ARTHROPODS IN CACAO ORGANIC FIELD IN BANTAENG DISTRICT, INDONESIA PROVINCE OF SOUTH

SULAWESI Vien Sartika Dewi, Untung Surapati, Melina and Sulastria Department of Plant Pests and Diseases Faculty of Agriculture, Hasanuddin University Makassar Indonesia

Nov 9 09:00-10:30 IV-A-2

Chair: Natividad C. CALPATURA

THE BIOLOGY OF BLACK LADYBUG (*Paraecometus pallicornis* DALLAS): A NEW PEST ON RICE IN SOUTHEAST SULAWESI Rahayu M, Muhammad Taufik¹, La Karimuna, Andi Khaeruni, and Yulius B. Pasolon^{1,1} Department of Agrotechnology, Faculty of Agriculture, Universitas Halu Oleo, Kendari, 93232, Southeast Sulawesi, Indonesia. ¹ Department of Agrotechnology, Faculty of Agriculture, Universitas Halu Oleo (UHO), Kendari, Southeast Sulawesi, Indonesia.

BEHAVIORAL AND OLFACTORY RESPONSES OF EGGPLANT FRUIT AND SHOOT BORER (*Leucinodes orbonalis*) TO VOLATILE CUES FROM MARIGOLD (*Tagetes erecta*) Susan May F. Calumpang National Crop Protection Center, College of Agriculture, University of the Philippines Los Banos

RICE INSECT PESTS IN THE UPLANDS OF SARANGANI PROVINCE, PHILIPPINES AND INDIGENOUS METHODS FOR THEIR CONTROL Florence Zapico*, Catherine Hazel Aguilar, Fredelyn Eve Catubig and Angelie Abistano Science Department, College of Natural Sciences and Mathematics, Mindanao State University-Fatima, The Philippines

Butterfly Species in the University of Rizal System: Time periods in small things, vision for a vital and sustainable Philippine agriculture Dorothy C Solano and Florante D Solano University of Rizal System, Philippines

VARIETIES STRIP INTERCROPPING REDUCING POPULATION OF GREEN LEAF HOPPER AND INCIDENCE OF WHITE STEM BORER ON RICE Ade Rosmana, Annie P. Saranga and Untung Surapati, Faculty of Agriculture, Hasanuddin University Makassar Indonesia

MOLECULAR IDENTIFICATION OF LEPIDOPTERAN RICE PESTS AND ASSOCIATED PARASITOID Marina, R.1, Nur Azura, A.1, Lau, W. H.1, & Yaakop, S.2 ¹Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia, 43400 UPM Serdang, Malaysia ²School of Environmental and Natural Resource Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia

Program B Agricultural Chemistry

Nov.8 15 : 30-16:30 V-B-1

Chairs; OLIVA C. RUMA and M. UCHINO

MOLLUSCICIDAL ACTIVITY OF THE CRUDE ETHANOLIC LEAF EXTRACT OF PHYSIC NUT (*JATROPHA CURCAS* L.) OLIVA C. RUMA¹, TERESITA B. ZIPAGANG² NORMAN SANCHEZ^{3,1,2} Natural Sciences and Mathematics Department, College of Arts and Sciences, Isabela State University, ³Santiago City National High School, Santiago City, Isabela, Philippines

DETERMINATION OF SECONDARY METABOLITES AND ANTIBACTERIAL PROPERTY OF EXTRACT FROM THE LEAVES OF *STACHYTARPHETA JAMAICENSIS* (L.) VAHL TERESITA B. ZIPAGANG¹ AND OLIVA C. RUMA² ^{1,2} Faculty, Natural Sciences and Mathematics Department, College of Arts and Sciences, Isabela State University, Echague, Philippines

DEVELOPMENT OF PRODUCTS (JAM, CHUTNEY, PASTILLAS, JUICE) FROM INDIAN MANGO Veronica C. Austria, Wilma M. De Vera and Raquel C. Pambid* Science and Math Department Pangasinan State University Bayambang Pangasinan Philippines

REVIEW OF UTILIZATION OF *PUERARIA MIRIFICA* CULTIVATE IN THAILAND AS POTENCIAL NUTRACEUTICAL Thanachod Thammachat¹, Sitthiphong soradech² and Somnuk Promdang^{3,1} Thai Herbal Medicine Plant, The Office of Kamphaengsaen Campus, Kasetsart University, Kamphaengsaen Campus, Nakorn pathom, Thailand ²Pharmaceutical and Natural products Department, Thailand Institute of Scientific and Technological Research (TISTR), Pathumthani, Thailand ³Phytochemistry Research and Analysis Unit, Central Laboratory and Greenhouse Complex, Kasetsart University, Kamphaengsaen, Nakorn pathom, Thailand

FRUITING CHARACTERISTICS OF SELECTED BASIDIOMYCETES OF PATHOLOGICAL SIGNIFICANCE IN MALAYSIA Zainal Abidin, M.A. , Pong Vui Mei, Azmi, C.A. and Vadamalai, G. Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia, UPM, Malaysia

Program C Aquatic Science

Nov. 8 15:30-16:45 VI-C-1

Chair; Sherrlyn M. RASDAS

POPULATION DYNAMICS AND STOCK STATUS OF TWO COMMERCIALY IMPORTANT FISHES IN THE ESTUARY OF MARUDU BAY, SOUTH CHINNA SEA, SABAH, MALAYSIA S.M.N. Amin*, M.K. Mohd Azim, A. Faculty of Agriculture, Universiti Putra Malaysia, Serdang, Selangor, Malaysia.

OIL PALM RESPONSE TO VARIOUS AMELIORANT APPLICATIONS IN PEAT SOIL, JAMBI PROVINCE Salwati, R. Purnamayani and L. Izhar Assessment Institute for Agricultural Technology (AIAT) Jambi Jl. Samarinda Paal V Kotabaru Jambi, Indonesia

MARKET CHAIN ANALYSIS OF MARINE RESOURCES IN ILIN ISLAND, OCCIDENTAL MINDORO Rizzi Angelica T. Dagos¹, Nelson A. Orfiano¹ and Arnold N. Venturina¹ ¹Occidental Mindoro State College, San Jose, Occidental Mindoro

BFAR-CHED PHILIPPINE NATIONAL AQUASILVICULTURE PROGRAM (PNAP) IN BATAAN: A STRATEGY FOR MANGROVE RESOURCES REHABILITATION Flores, Rudy C.*^a, Tungol, Felicisima E^a, Antonio, Abraham S. ^a, Medairos, Elizabeth D.^a, and Salas, Jonathan M.^b ^aBataan Peninsula State University, Orani Campus, Bayan, Orani, Bataan 2112, Philippines ^bBureau of Fisheries and Aquatic Resource 3, Maimpis, City of San Fernando, Pampanga, Philippines

AN ICT- ASSISTED GROWTH MANAGEMENT SYSTEM FOR MUD CRABS Rossian V. Perea Information Technology Department, Cavite State University Naic

Nov. 9 9:00-10:45 VI-C-2

Chair; SAIWATI

System Analyzer for Soil and Water Nitrates and Phosphates for Fish Ponds Sherrlyn M. Rasdas Information technology Department, Cavite State University Naic Philippines

Mud Crabs Broodstock and Growth Management System using Aquaculture Technology Rossian V. Perea and Sherrlyn M. Rasdas Faculty of Information Technology Department Cavite State University Naic, Philippines

THE EFFECT OF THE ENVIRONMENTAL DEGRADATION OF LAGUNA LAKE ON THE TRADERS' CHOICE OF FISH SOURCE Ma. Eden S. Piadozo and Genesis B. Jarilla Department of Agricultural Economics, College of Economics and Management, University of the Philippines Los Baños

Program D Forest and Forest Products Sciences

Nov 9 11:00-12:30 IV-D-3

Chairs; Sermisiri CHANPRAME and Guillermo S. RILLON Jr.

MORINGA-CURCUMA ANTI-BACTERIAL SOAP NELLY B. BELCHEZ BICOL UNIVERSITY POLANGUI CAMPUS POLANGUI, ALBAY, PHILIPPINES

Genetic Transformation of Teak (*Tectona grandis* L.f.) using Herbicide Resistance Gene as Selectable Marker Gene Sermisiri Chanprame^{1,2}, Yaowapan Sontikun¹ and Sontichai Chanprame^{1,3} ¹ Center for Agricultural Biotechnology, Kasetsart University and The Center of Excellence on Agricultural Biotechnology ² Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, ³ Department of Agronomy, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, THAILAND

CLONAL PROPAGATION OF TWO INDIGENOUS TREE SPECIES IN DIFFERENT ROOTING MEDIA Yolina T. Castañeto and Elmer T. Castañeto Nueva Vizcaya State University, Bayombong, 3700 Nueva Vizcaya, Philippines

DESIGN, FABRICATION OF MANUALLY OPERATED/CALIBRATED STOVE USING AGRICULTURAL RESIDUES/WASTE-BASED BRIQUETTES AS AN ALTERNATIVE FUEL Guillermo S. Rillon, Jr. Tarlac College of Agriculture, Camiling, Tarlac, Philippines

Statistical Analysis to Understand Drivers for Prevention of Forest and land Fire Issues in West Kalimantan Province, Indonesia Maswadi 1), Maulidi 1), Wanti Fitrianti 1), Shenny Oktoriana 1), Rini Hazriani 1), Dwi Raharjo 1), Dwi Zulfita 1), Denah Suswati¹⁾, Ari Krisno Hadi 1), Kuno Hiromitsu 2), Anna Syilviana Kartika 3), Sahat Irawan Manik 4) 1) Faculty of Agriculture, University of Tanjungpura Pontianak 2) Program of Community Development of Fires Control in Peat Land Area (FCP) (Ministry of Forestry [MoF]-Japan International Cooperation Agency [JICA]) 3) Directorate of Forest Fire Control, Directorate General of Forest Protection and Nature Conservation, MoF 4) Natural Resources Conservation Center in West Kalimantan, MoF

DESIGN AND FABRICATION OF A BIOFERMENTING MACHINE ON A VILLAGE LEVEL Guillermo S. Rillon, Jr. Tarlac College of Agriculture, Camiling, Tarlac, Philippines

Program E Agro-Engineering and Landscape Sciences

Nov.9 IV-E-4 13:30-15:00

Chairs: Fernando C. SANCHEZ Jr. and H.NARIOKA

NON DESTRUCTIVE QUALITY EVALUATION OF DRAGON FRUIT USING ULTRASOUND METHOD Sutrisno S. Mardjan, Siti Djamilah and I Wayan Budiastira Department of Mechanical and Biosystem Engineering Faculty of Agricultural Engineering and Technology Bogor Agricultural University

A COMPARISON THE CROP WATER NEED *ETc* OF WHEAT AND TOMATO IN NO –WIND CONDITION THROUGH SIMULATION; AND WIND VELOCITY WITHIN 24-HOURS INTERVAL Homayoon Ganji¹ Abdul Saboor Rahmany¹ Takamitsu Kajisa¹ Masaaki Kondo¹ and Hajime Narioka¹ Graduate School of Bioresources, Mie University, Japan

REGIONAL PLANING STRATEGIC OF IRRIGATED AGRICULTURAL LAND CONVERSION BY CONSIDERING TO THE IRRIGATION SYSTEM(CASE STUDY : CIHEA IRRIGATION SYSTEM OF CIANJUR) Endang Purnama Dewi¹, M.Yanuar J Purwanto², Asep Sapei³ 1 2,3 Civil and Environmental Engineering, Bogor Agricultural University, Indonesia

PAST, PRESENT AND FUTURE OF EDIBLE LANDSCAPING Fernando C. Sanchez, Jr.^{1a}, Eliza C. Aquino^{1b}, Bryan V. Apacionado^{1c}, Maria Charito E. Balladares^{1d}, Norma G. Medina^{1e} and Ryan Rodrigo P. Tayobong^{1f}, ¹University of the Philippines Los Baños, Laguna, Philippines ^a

Optimization of Furrow Irrigation Systems for Sustainable Corn Production in the Province of Isabela, Philippines LANIE ALEJANDRO-ALEJO Isabela State University, Echague, Isabela, Philippines

WATER SAVING TECHNOLOGIES IN RICE PRODUCTION: IMPROVING PRODUCTIVITY AND PROFITABILITY IN WATER-SCARCE AREAS OF BULACAN, PHILIPPINES Dinah Marie C. Dayag^{*}, Gregory Moses Villacorta, Junel B. Soriano, Josie A Valdez Bulacan Agricultural State College, Pinaod, San Ildefonso, Bulacan, 3010 Philippines ^{*}

Nov.9 IV-E-5 15:30-16:30

Chairs: Endang Purnama DEWI and Jeffrey L. R. BAREM

BENCHMARKING FOR PERFORMANCE ASSESSMENT OF SMALL AND LARGE RESERVOIR IRRIGATION SCHEMES IN CAGAYA RIVER BASIN: THE CASE OF NATIONAL IRRIGATION AND SMALL WATER IMPOUNDING SYSTEMS Orlando F. Balderama, University Research Director, Isabela State University Jeffrey Lloyd R. Bareng^{*}, Lanie A. Alejo, Isabela State University Philippines

PERFORMANCE EVALUATION AND IMPACT ASSESSMENT OF BURGOS SMALL WATER IMPOUNDING (SWIP) IN CABARROGUIS, QUIRINO R.C. NAVAL Quirino State University, Diffun, Quirino, Philippines

Utilization of Sensors and SMS Technology to Remotely Maintain the Level of Dissolve Oxygen, Salinity and Temperature of Fishponds Rodrigo C. Munoz¹, Reyman P. Calderon², Rudy C. Flores³, Sisenando C. Masangcap⁴, Jayson P. Angeles⁵, Mark Colentava⁶ 1. College of Engineering & Architecture, Bataan Peninsula State University. 2. BPSU 3. Campus Director, BPSU Orani Campus. 4. CBA, BPSU Balanga Campus 5. Faculty, BPSU Orani Campus Philippines

Multi System Automotive Engine Electrical Trainer NICANOR B. BALBIN Bicol University College of Industrial Technology, Legazpi City, Philippines

Program F Animal Life Science

Nov.9 11:00-12:30 VI-F-3

Chairs; Maki HAYASHIDA and Lourdita A. LLANTO

PERFORMANCE OF ANGLO NUBIAN DAIRY GOATS AT DIFFERENT AGES FED WITH *CENTROSEMA*, *STAR GRASS* AND CONCENTRATE SUPPLEMENTATIONS ARVIN M ANDAL AND *FLORIE B GAPIDO UNIVERSITY OF RIZAL SYSTEM, TANAY, RIZAL,

PHILIPPINES

CLONING OF THE 2B REGION FROM FOOT-AND-MOUTH DISEASE VIRAL GENOME AS A POTENTIAL EXTERNAL POSITIVE CONTROL FOR FMD DETECTION Jacob Anderson C. Sanchez¹, Jacqueline V. Bagunu¹, Libertado C. Cruz², and Rubigilda C. Paraguison³ ¹Department of Natural Science, Institute of Arts and Sciences, Pampanga Agricultural College, Magalang, Pampanga, Philippines ² Philippine Carabao Center, National Headquarters and Genepool, Science City of Munoz, Nueva Ecija, Philippines ³Molecular Genetics Laboratory, Philippine Carabao Center, National Headquarters and Genepool, Science City of Munoz, Nueva Ecija, Philippines

GROWTH PERFORMANCE OF BROILERS 'Cobb' ON VARYING AMOUNTS OF LIQUID SMOKE IN THE DRINKING WATER BENEDICTO R. BATILES, JR. Occidental Mindoro State College San Jose, Occidental Mindoro

COMMUNICATION APPROACHES IN THE AGRICULTURAL EXTENSION PROGRAMS OF OCCIDENTAL MINDORO STATE COLLEGE (OMSC) Mary Yole Apple Declaro-Ruedas Mikaela L. Venturina Instructor, Occidental Mindoro State College, San Jose, Occidental Mindoro

UTILIZATION OF ICRISAT-BRED SWEET SORGHUM SPV422 AS FODDER FOR NATIVE CROSSED BULGARIAN BUFFALOES (*BUBALUS BUBALIS LINN.*) SANCHEZ, G.C.,*¹ GOLIN, S.N.¹, BULAO, M.F.S¹., DAYRIT, A.D.²., SRINIVAS, R.³. AND SORIANO, H.M.JR.¹ ¹Pampanga Agricultural College, Magalang, Pampanga, Philippines ²Department of Agriculture, Regional Field Office III, City of San Fernando, Philippines ³ International Crop Research Institute for the Semi-Arid Tropics, Patancheru, India

Application of Triplex PCR Technique for Detection of Pathogenic bacteria in Bovine and Goat Milk **Wirawan Junlapho^{1,2}, Awassada Putchakarn^{1,2} and Sasitorn Nakdong¹** ¹Department of Animal Sciences, Faculty of Agriculture Kamphaeng Saen, Kasetsart University Kamphaeng Saen Campus, ²Center of Excellence on Agricultural Biotechnology: (AG-BIO/PERDO-CHE), Bangkok, Thailand
Nov. 9 VI-F-4 12:30-14:45 **Chairs: Teresita PEQUENA and HUSUMAINI**

THE UTILIZATION OF RED DRAGON FRUIT (*Hylocereus polyrhizus*) PEEL AS BROILER FEED Maria Endo Mahata*, Yusuf Mahil, Yusuf Fajri, Riko Aditia, and Yose Rizal. Faculty of Animal Science, University of Andalas, Padang, Indonesia

EFFECTS OF DIFFERENT LEVELS OF MADRE DE AGUA (*Trichantera gigantea*), LEAD TREE (*Leucaena leucocephala*) AND HORSE RADISH (*Moringa oleifera*) FRESH LEAVES AS PARTIAL REPLACEMENT OF FEEDS ON EGG PRODUCTION PERFORMANCE OF MALLARD DUCK (*Anas platyrhynchos*) CHARLIE D. LACAYANGA, DVM, MSAH INSTRUCTOR I, INSTITUTE OF VETERINARY MEDICINE, TARLAC COLLEGE OF AGRICULTURE, MALACAMPA, CAMILING TARLAC 2306, PHILIPPINES

ADVANCE REPRODUCTIVE BIOTECHNOLOGIES AS TOOL FOR WATER BUFFALO GENETIC IMPROVEMENT IN THE PHILIPPINES DANILDA HUFANA-DURAN Reproductive Biotechnology Laboratory, Philippine Carabao Center, Munoz, Nueva Ecija, Philippines

QUALITY OF FROZEN SEMEN IN ARTIFICIAL INSEMINATION IN DAIRY AREAS OF BICOL REGION, PHILIPPINES Lourdita A. Llanto¹ and Felomino V. Mamuad² ¹Department of Agricultural Sciences, Bicol University College of Agriculture and Forestry, Guinobatan, Albay, Philippines ²Philippine Carabao Center, Muñoz, Nueva Ecija, Philippines

PARASITIC LOAD STATUS OF STOCKS IN THE BEEF CATTLE DISPERSAL PROGRAM IN THE PROVINCE OF TARLAC: BASIS IN RECOMMENDING PARASITE PREVENTION PROGRAM REGINA C. VILLARAMA DVM, TARLAC COLLEGE OF AGRICULTURE, Philippines

Comparative Profitability Analysis of Table Egg Production Using Day-Old Chicks and Ready-to-Lay Pullets Julieta A. Delos Reyes Kathleen Angeli D. Cerezo Dept. of Agricultural Economics, CEM University of the Philippines Los Baños, the Philippines

Nov. 9 VI-F-5 15:30-16:45

Chairs: F. Balute GAPIDO and Seksom ATTAMANGKUNE

EGG HATCHABILITY, EGG QUALITIES AND PROFITABILITY OF DIVERSE NATIVE CHICKENS RAISED IN VARYING CONFINEMENT SPACES & LEVELS OF PILI (*Canarium ovatum*) PULP IN THE LAYING RATION * TERESITA B. PEQUENA Department of Agricultural Sciences (DAS), Bicol University College of Agriculture and Forestry (BUCAF), Guinobatan, Albay, Philippines

EFFECT OF CARBOHYDRASE SUPPLEMENTATION TO BROILERS FED WITH REFORMULATED DIETS BASED ON CORN-SOYBEAN MEAL VELMOR M. ABELLERA Provincial Technical Institute of Agriculture, Isabela State University Cabagan;

A Functional Feed Additive from *Psidium guajava* L. Nuanchan Paraksa¹, Orprapan Songserm¹ and Pakkaorn Ak-karamathurakul¹ Department of Animal Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University, Kamphaeng Saen Campus, Thailand,

INFLUENCE OF EARLY FEEDING TIME TO PRODUCTION PERFORMANCE AND VISCERAL ORGAN OF BROILER CHICKEN Heryandi, Y., M. H. Abbas, Widia, Welki and Isnaini. A Animal Husbandry Production Department, Faculty of Animal Husbandry, Andalas University, Padang, West Sumatra, Indonesia.

The Improving of Duck's Meat Quality by Supplementation LAB; Isolated from Waste of VCO Processing Husmaini¹, M.H. Abbas¹, E.Purwati¹, Bani¹ and Helda¹ ¹Dept. of Animal Production, Andalas University, Padang Indonesia

Program G Agricultural Science in Society and Economy, Boundary Agriculture

Nov.8 15:30-17:00 VII-G-1

Chair; Yoichi IZUMIDA

IS FRESH PRODUCE READY? FARMER PERCEPTION ON BRAND AND PACKAGING OF TOMATOES ¹Agriani H. Sadeli, ²Hesty N. Utami, and ³Tomy Perdana Department Socio Economic of Agriculture, Padjadjaran University, Indonesia

Market Position of Indonesia's Refined Palm Oil in the World Market Amzul Rifin Department of Agribusiness, Faculty of Economics and Management, Bogor Agricultural University, Indonesia

THE ROLE OF LOCAL AGRICULTURAL AND LIVESTOCK PRODUCTS TO SUPPORT SUSTAINABLE TOURISM IN BALI I Gusti Ayu Oka Suryawardani, Agung Suryawan Wiranatha Udayana University, Denpasar, Indonesia

ECONOMIC AND CLIMATE BENEFITS FROM UTILIZATION OF UNUSED FARMLANDS FOR EUCALYPTUS PLANTATIONS AND

CHARCOAL PRODUCTION IN THAILAND Jintana Kawasaki¹, Thapat Silalertruksa², Makino Yamanoshita¹, Henry Scheyvens¹
¹Institute for Global Environmental Strategies, Natural Resources and Ecosystem Service Area, Japan ²King Mongkut's University of Technology Thonburi, The Joint Graduate School of Energy and Environment, 126 Prachauthit Road, Bangkok, Thailand

THE ROLE OF SUBAK FACING LANDUSE CHANGES AND TOURISM DEVELOPMENT WITHIN SABA WATERSHED, NORTHERN OF BALI PROVINCE, INDONESIA I Wayan Budiassa¹, Nobuyuki Sekino², Hisaaki Kato², Jumpei Kubota², Budi Indra Setiawan³
1)Udayana University, Indonesia 2)Research Institute for Humanity and Nature, Japan 3)Bogor Agricultural University, Indonesia

PROFITABILITY AND EFFICIENCY OF SOYBEAN FARM-MANAGEMENT IN GROBOGAN REGENCY Joko Sutrisno and Endang Siti Rahayu
Agribusiness Department, Faculty of Agriculture, Sebelas Maret University, Surakarta, Central Java, Indonesia

Nov.9 09:00-10:30 VII-G-2

Chair; Eden PLADOZO

CPO Trade and Economic Performance; Impact of Economic Policy Change and its Policy Response Rina Oktaviani¹
¹ Economics Department, Faculty Economics and Management, Bogor Agricultural University, Indonesia.

Introduction of Cassava Leaves Silage to Sheep Farmers in Petir Village, Dramaga, Bogor, Indonesia Sabila Mumtaz Khandari ¹), Siti Jahroh ²) and Siti Aisyah ²)
¹) Graduate School of Agriculture, Agribusiness Course, Bogor Agricultural University ²) Department of Agribusiness, Faculty of Economics and Management, Bogor Agricultural University

SUCCESSFUL DEVELOPMENT OF BALI CATTLE THROUGH INTEGRATED FARMING SYSTEM PROGRAM: DRIVING AND INHIBITING FACTORS Sri Wahyuni
Indonesia Center for Socio Economics and Policy Studies , Indonesia

APPROPRIATE TECHNOLOGY OF DUCK INDUSTRY FOR RURAL WELFARE Sri Wahyuni¹, Saptana¹ and Rangga Ditya Yofa¹
¹Indonesian Center for Agricultural Socio-Economic and Policy Studies, Indonesia

DO PRODUCERS AND CONSUMERS CARE ABOUT ORIGIN LABELING? Yosini Deliana, Sri Fatimah, Anne Charina
Faculty of Agriculture Padjadjaran University, Bandung, Indonesia

THE IMPORTANCE OF FOOD SAFETY CERTIFICATES (FSC) IN PURCHASING FOOD PRODUCTS Noliila Mohd Nawi
Faculty of Agriculture, Universiti Putra Malaysia, Selangor, Malaysia

Nov.9 11:00-12:30 VII-G-3

Chair; Julieta de los REYES

REGIONAL DEVELOPMENT BASED ON MICRO, SMALL AND MEDIUM ENTERPRISES Yesi Hendriani Supartoyo*
the Graduate School of Bogor Agricultural University, West Java – Indonesia

Analyzing of Comparative Bankruptcy Prediction Models to Determine: The Most Accurate Predictor Yurniwati**1)
Accounting Departement Andalas University Dwinta Indriani **2) Accounting Departement Andalas University, Indonesia

Education and Research for Sustainable Agricultural Landscape and Satoyama Landscape Conservation by collaboration with Tokyo University of Agriculture and Samegawa village in Fukushima prefecture Teruaki Irie
Tokyo University of Agriculture, JAPAN

AGRICULTURAL SECTOR IN MALAYSIAN ECONOMY: ISSUES AND CHALLENGES Juwaidah Sharifuddin¹ and Abdul Shukor Juraimi²
¹Department of Agribusiness and Information Systems, ²Department of Crop Science Faculty of Agriculture, Universiti Putra Malaysia, Selangor, Malaysia

FACTORS INFLUENCING CONSUMER ACCEPTANCE OF FUNCTIONAL FOOD: THE CASE OF OAT PRODUCTS Juwaidah Sharifuddin, ZainalAbidin Mohamed, and Yong Siew Kuan
Department of Agribusiness and Information Systems, Faculty of Agriculture, Universiti Putra Malaysia, Selangor, Malaysia

Nov.9 13:30-15:00 VII-G-4

Chair; R.OKTAVIANI

ENVIRONMENTAL LIABILITIES FROM AGRICULTURAL POLLUTANTS IN MT. BANAHAW DE LUCBAN WATERSHED Gina Villegas-Pangga¹, V. Bato¹ and P. Rocamora¹
¹Soils and Agroecosystems Division, Agricultural Systems Cluster, College of Agriculture, University of the Philippines Los Baños, Philippines

AN EVALUATION OF THE SOCIAL IMPACT OF THE SCIENCE AND TECHNOLOGY BASED FARM (STBF) PROJECT IN BARANGAY MASALASA, VICTORIA, TARLAC, PHILIPPINES GLENN Y. ILAR¹, ROWENA P. DE GUZMAN², GIRLIE NORA A. ABRIGO³, DANESTO B. ANACIO⁴ & VALOREE F. MACAPUGAY⁵
¹Philippine Rice Research Institute, and UPLB, ²Department of Social Sciences, College of Arts and Sciences, UPLB, ³Department of Social Sciences, College of Arts and Sciences, UPLB, ⁴School of Environmental Science and Management, UPLB, ⁵Graduate School, UPLB, Philippines

EXAMINING THE BENEFIT OF USING LOCAL BREEDS AND INDIGENOUS FEED MATERIALS FOR CLIMATE CHANGE ADAPTATION AND FOOD SECURITY IN SELECTED COCONUT-PRODUCING COMMUNITIES OF THE PHILIPPINES MARY JEAN G. BULATAO* AND VIRGILIO T. VILLANCIO
AGRICULTURAL SYSTEMS CLUSTER, U.P. LOS BANOS, COLLEGE LAGUNA, Philippines

HOUSEHOLD ECONOMY OF URBANIZED VILLAGE IN WEST JAVA, INDONESIA: CASE STUDY OF PETIR VILLAGE, BOGOR Siti Jahroh and Yusman Syaukat
Faculty of Economics and Management Bogor Agricultural University, Indonesia

SUPPLY CHAIN IMPROVEMENT OF DRIED SARDINES IN THE BICOL REGION, PHILIPPINES Viola L. AMANO, Julieta V. MOJADOS
Bicol University College of Agriculture and Forestry Guinobatan, Albay, PHILIPPINES

INCOME AND RISK SHARING IN SMALL-SCALE MANGO PRODUCTION IN GUIMARAS ISLAND, PHILIPPINES* Zarah San Juan-Causo
Tokyo University of Agriculture, Japan

Nov.9 15:30-17:00 VII-G-5

Chair; Kazuhiko HOTTA

ADAPTING TO CLIMATE CHANGE: A CASE STUDY AMONG THE UPLAND COMMUNITIES OF NUEVA VIZCAYA, PHILIPPINES E. T. Carig
Quirino State University, Diffun, Quirino, Philippines

ACCEPTABILITY OF THE ADOBO FLAVORED SMOKED FISH IN SAN JOSE, OCCIDENTAL MINDORO Mary Yole Apple Declaro-Ruedas, Cristeta E. Villanada
Occidental Mindoro State College, San Jose, Occidental Mindoro, Philippines

ACCEPTABILITY OF FISH PASTE CUBES IN SAN JOSE, OCCIDENTAL MINDORO Nena L. Pajarillo
Occidental Mindoro State College,

San Jose, Occidental Mindoro, Philippines

CHARACTERIZATION OF UPLAND FARMING PRACTICES OF THE PHILIPPINES' INDIGENOUS PEOPLE Susanita G. Lumbo
Occidental Mindoro State College, San Jose, Occidental Mindoro, Philippines

ECONOMIC IMPACT AND PERCEPTION OF FARMERS TO SYSTEM RICE OF INTENSIFICATION (SRI) IN KARAWANG, WEST JAVA, INDONESIA A Faroby Falatehan Faculty of Economics & Management, National University of Malaysia Faculty of Economics & Management, Bogor Agricultural University Jamal Othman Faculty of Economics & Management, National University of Malaysia Nor Ghani Md. Nor Faculty of Economics & Management, National University of Malaysia Abdul Hamid Jaafar Faculty of Economics & Management, National University of Malaysia Basri Abdul Talib Faculty of Economics & Management, National University of Malaysia

DOES PIONEER PRODUCT GET CUSTOMER RETENTION? BUILDING CUSTOMER LOYALTY THROUGH COSTUMER SATISFACTION AND CUSTOMER VALUE, A STUDY OF INSTANT BOTTLED TEA ON YOUTH IN BANDUNG WEST JAVA INDONESIA
¹Hesty Nurul Utami and ²Agriani Hermita Sadeli Department Socio Economic of Agriculture, Padjadjaran University, Indonesia ¹
Nov.8 15:30-16:45 VIII-G-1 Chair; Juwaidah SHARIFUDDIN

INSTITUTIONAL ANALYSIS OF SOYBEAN SUPPLY CHAIN IN GROBOGAN REGENCY Kusnandar and Endang Siti Rahayu
Departement of Agribusiness, Agricultural Faculty, Sebelas Maret University, Indonesia

Linking Urban Farmers Market to Tourism: A Case Study of tourists' preferences in visiting or revisiting the Siti Khadijah Central Market, Malaysia Abdul Rahman Sali* and Maria Fay Rola-Rubzen Faculty of Plantation and Agrotechnology *Universiti Teknologi MARA, Sarawak, Malaysia

ORGANIZATIONAL PERFORMANCE OF THE FARMERS' INFORMATION AND TECHNOLOGY SERVICES (FITS) CENTERS IN THE SOUTHERN TAGALOG REGION, PHILIPPINES Almira G. Magcawas¹, Antonio G. Papa, Marietta C. Mojica, Nelia C. Cresino, Divinia C. Chavez, and Florie B. Gapido² ¹Cavite State University ²University of Rizal System, Philippines

DEVOLUTION OF THE DEPARTMENT OF AGRICULTURE (DA) PERSONNEL AND SERVICES IN TARLAC: AN ASSESSMENT Edna A. Reyno
Tarlac College of Agriculture, Camiling, Tarlac, the Philippines

Socio Ecological and Livelihood Assessment of Selected Coastal Areas in Sorsogon, Philippines Estrella, Arthur B. , Foronda, Vladimir R. and Lirag, Ma. Teresa B. Central Bicol State University of Agriculture, Pili, Camarines Sur, Philippines
Nov.9 09:00-10:30 VIII-G-2 Chair; Yusman SYAUKAT

ALTERNATIVE LOW INPUT AGRICULTURE SYSTEM: A Sustainable Agriculture Production System Model of Pampanga Agricultural College in Central Luzon, Philippines Honorio M. Soriano Jr., Norman G. De Jesus, Rafael R. Rafael, Estrella C. Zaballa, Regina D. Dimaricut, Ernesto D. Supan, Filomena K. Reyes, Celso Reyes, Angelina C. De Jesus, Emmanuel Pangilinan, Cesar Orpiada
Pampanga Agricultural College (PAC-ALIAS CENTER), Philippines

TROPICAL ORGANIC VEGETABLE VARIETIES FOR ORGANIC VEGETABLE GARDENS IN CENTRAL LUZON, PHILIPPINES Norman G. De Jesus¹ Arturo Manipon² Dinah Marie Dayag³ Cesar Orpiada¹ Emmanuel Pangilinan¹ Rafael Rafael¹ Janette Musni¹ Rodel G. Maghirang⁴ and Honorio M. Soriano Jr¹ ¹Pampanga Agricultural College (PAC), ²Central Luzon State University (CLSU), ³Bulacan Sate Agricultural College (BASC), Philippines ⁴University of the Philippines in Los Banos (UPLB), Philippines

PERFORMANCE OPTIMIZATION FOR SUSTAINABLE AGRICULTURAL PRODUCTIVITY OF THE MAGAT RIVER INTEGRATED IRRIGATION SYSTEM (MARIIS) ORLANDO F. BALDERAMA, LANIE ALEJANDRO-ALEJO, JEOFFREY LLOYD R. BARENG, MARIE ROSE B. MATA, Isabela State University, Philippines

BURULICIOUS PROJECT: ITS PROCESSING, PACKAGING, COMMERCIALIZATION AND PROJECT IMPLEMENTATION Raquel C. Pambid, Wilma M. De Vera and Veronica C. Austria Pangasinan State University, Bayambang, Philippines

WOULD CONSERVATION CO-EXISTS WITH PRODUCTION? EVOLUTION OF SUSTAINABLE FARMING PRACTICES IN THE FRAGILE UPLANDS OF THE PHILIPPINES' Roselyn F. Paelmo, Leila D. Landicho, Rowena D. Cabahug, Roberto G. Visco, Maryanne G. Abadillos, Romnick S. Baliton, , Arnold Karl A. Castillo, Gerardo G. Paelmo and Russel A. Cosico ¹Institute of Agroforestry, University of the Philippines Los Baños, Philippines

SUPPLY CHAIN PERFORMANCE OF BROILER AGRIBUSINESS WITH PARTNERSHIP SYSTEM DWI YUZARIA FACULTY OF ANIMAL HUSBANDRY, ANDALAS UNIVERSITY, INDONESIA
Nov.9 11:00-12:30 VIII-G-3 Chair; R.PAELMO

SUPPLY CHAIN EFFICIENCY ANALYSIS OF SOYBEAN IN GROBOGAN DISTRICT, CENTRAL JAVA, INDONESIA Endang Siti Rahayu, Kusnandar, Joko Sutrisno Agribusiness Department, Agricultural Faculty, University of Sebelas Maret, Indonesia

STRATEGY RECOMMENDATION OF CORN AGRIBUSINESS DEVELOPMENT IN GROBOGAN REGENCY, CENTRAL JAVA PROVINCE Mohd. Harisudin¹, Endang Siti Rahayu¹, Rahmawati² 1) Agribusiness Department, Faculty of Agriculture, Sebelas Maret University, Indonesia 2) Accounting Department, Faculty of Economics and Business, Sebelas Maret University, Indonesia

Consumer Behavior and Marketing Strategy towards Organic Food Products in the Emerging Market Mukhamad Najib¹ ¹ Department of Management, Bogor Agricultural University, Indonesia

Interrelation Of Socio-Economic And Environmental of Palm Farmer Empowerment WEKA WIDAYATI¹), USMAN RIANSE²), WEKA GUSMIARTY ABDULLAH³), WA KUASA BAKA⁴) 1Faculty of Forestry and Environment, Halu Oleo University, 2,3Faculty of Agriculture, Halu Oleo University,4Faculty of Culture Science, Halu Oleo University, Kendari ,INDONESIA

UTILIZATION OF OIL PALM FIBER RESIDUALS : MALAYSIAN EXPERIENCED Rika Terano¹, Yasuhiko Koike² and Zainalabidin Mohamed¹ ¹Department of Agribusiness and Information Systems, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia ²Tokyo University of Agriculture, Japan

ANALYSIS OF THE SUPPLY RESPONSE OF GARLIC IN QUEZON PROVINCE, PHILIPPINES Bates M. Bathan¹ and Julieta A. Delos Reyes² ¹ ² Department of Agricultural Economics, College of Economics and Management, University of the Philippines

Nov.9 13:30-15:00 VIII-G-4

Chair; Siti JAHROH

COMMUNITY-BASED RENEWABLE ENERGY SYSTEMS AND AGRICULTURE AND RURAL CHANGE: NEXUS ANALYSIS WITHIN CLIMATE CHANGE AND INCLUSIVE AND SUSTAINABLE DEVELOPMENT FRAMEWORK CARMELO J. ESTEBAN¹, ZENAIDA H. ESTEBAN² ¹ Development Studies & Affiliated Renewable Energy Center (AREC), Mariano Marcos State University (MMSU), ² Agricultural Economics & Agribusiness & AREC, MMSU, Philippines

Science & Technology-Based Farm on Mango Production in Bataan, Philippines Hermogenes M. Paguia Extension Services, Bataan Peninsula State University Abucay, Bataan, Philippines

STEPPING BACK TO MOVE FORWARD IN RURAL DEVELOPMENT: PROSPECTS AND CHALLENGES IN PROMOTING ORGANIC AGRICULTURE IN UPLAND FARMING COMMUNITIES IN THE PHILIPPINES Leila D. Landicho¹, Eduardo O. Mangaoang², Richmund A. Palma³, Maricon R. Perez⁴, Roselyn F. Paelmo¹, Rowena D. Cabahug¹, Roberto G. Visco¹ and Maryanne G. Abadillos¹ ¹Institute of Agroforestry, University of the Philippines ²Visayas State University ³Misamis Oriental State College of Agriculture and Technology ⁴Isabela State University, Philippines

AWARENESS ON THE CAUSES AND EFFECTS OF GLOBAL WARMING IN BUSINESS AND AGRICULTURE OF NABUA CAMARINES SUR Maria Teresa Jintalan-Manzano Camarines Sur Polytechnic Colleges, Camarines Sur Philippines

PRODUCTION, COMMERCIALIZATION AND UTILIZATION OF STINGLESS BEES IN BICOL, PHILIPPINES MOSTOLES, MARIA DULCE. , PASIONA, LILIA C., DEL ROSARIO, ALLAN B., BUENAAGUA, ROBERTO R., LLAGAS, CHARLENE and JOVILLANO, HELEN M. CENTRAL BICOL STATE UNIVERSITY OF AGRICULTURE, SAN JOSE, PILI, CAMARINES SUR, PHILIPPINES

Nov.9 15:30-17:00 VIII-G-5

Chair; Ma Teraesa B

Prioritizing Agricultural Development in the Philippines: The Case of Ilocos Provinces Prudenciano U. Gordoncillo¹ ¹ College of Economics and Management, University of the Philippines, Philippines

PROFILING OF FARMERS AT BARANGAY TANOLONG: BASIS FOR INTERVENTION MEASURES Gonzales, Rosemarie DC, DBA

VIABILITY OF INTEGRATED CROP MANAGEMENT IN SMALL-SCALE IRRIGATION SYSTEM FOR RICE CROPPING: A EUROPEAN UNION PROJECT Susan C. Santos Bulacan Agricultural State College, Philippines

ECONOMIC POTENTIAL OF RAISING PHILIPPINE NATIVE PIGS ON TRICHANTERA (*Trichantera gigantea*) DIETS Virgie N. Callo-Etisand Camilo V. Marquez UNIVERSITY OF RIZAL SYSTEM Sampaloc, Tanay Rizal PHILIPPINES

CHALLENGES OF COOPERATIVE MARKETING IN THAILAND – A CASE OF THA YANG BANANA EXPORT TO JAPAN – JITTISAK WATCHARABURAPANUN and YOICHI IZUMIDA International Bio-Business Studies, Tokyo University of Agriculture, Japan

Nov.9 09:00-10:30 V-G-2

Chair; Tran Huu CUONG

WORKING CAPITAL PROBLEM AND ITS EFFECTS ON THE PERFORMANCE OF FARMERS' BUSINESS IN PETIR VILLAGE, BOGOR, WEST JAVA, INDONESIA Yusman Syaikat, Siti Jahroh, Dadang Bogor Agricultural University, Bogor, West Java, Indonesia

ADOPTION OF AGRICULTURAL INNOVATIONS BY FARMERS GROUP IN THE CONTEXT OF ZERO WASTE: THE CASE OF DAIRY CATTLE BIOGAS WASTE IN EAST JAVA, INDONESIA Endang Yektiningsih, Machfud Effendy, Hadi Sutrisno Agriculture Faculty, UPN "Veteran" East Java, Indonesia

A study of consumers' preferences and behaviors on green tea in Bangkok: in the context of familiarity with the Japanese culture *Kazumori NISHI, **Palita Juijenrob, and **Shoji SHINKAI *Saga University, **Fukuoka Women's University

SCIENCE AND TECHNOLOGY-BASED FARM ON BANANA PRODUCTION IN CAGAYAN VALLEY: A TECHNOLOGY DELIVERY SYSTEM F. M. Dolojan Quirino State University, Diffun, Quirino, Philippines

Promotion and Development of the Organic Agriculture in Negros Island, Philippines Nina Nocon-Shimoguchi¹, Hiroki Inaizumi¹ and Kenji Omuro² ¹ Tokyo University of Agriculture ² NARO Western Region Agricultural Research Center

COFFEE AND NATIVE CHICKEN INTEGRATED FARMING SYSTEM: The Experience of Pampanga Agricultural College, Philippines 1Ernesto D. Supan, 2Honorio M. Soriano Jr and 3Norman De Jesus 1.Institute of Agriculture Systems and Technology, Pampanga Agricultural College-Philippines 2. 3 Pampanga Agriculture College, Philippines

Nov.9 11:00-12:30 V-G-3

Chair; F.B.GAPIDO

POLICY SIMULATION OF DAIRY COWS AGRIBUSINESS DEVELOPMENT WITH DYNAMIC SYSTEMS MODEL APPROACH Juniar Atmakusuma, Harmini and Siti Jahroh Faculty of Economics and Management, Bogor Agricultural University

FEATURES OF RICE FARMING IN CAMBODIA – A CASE OF AREA WITH THREE CROPS IN A YEAR – *YUKI TAKAHASHI and YOICHI IZUMIDA * International Bio-Business Studies, Tokyo University of Agriculture, Japan

POLICY STUDY AND ADVOCACY TO PROMOTE CLIMATE CHANGE-RESILIENT FARMING SYSTEM IN NORTHERN PHILIPPINES PEDRITA N. MEDRANO*, JANUEL P. FLORESCA AND ROSALINDA S. GUINGAB ISABELA STATE UNIVERSITY, PHILIPPINES

An Evaluation of Market Participation among Smallholder Sweetpotato Farmers in the Highlands of Papua New Guinea Renato Villano ^a Hui-Shung (Christie) Chang^b, Donald Irving^b ^a UNE Business School, University of New England, Armidale, NSW, Australia ^b Institute for Rural Futures, School of Behavioural, Cognitive and Social Sciences, University of New England, Armidale, NSW, Australia *

Poster Sessions in All Categories

P1 Effect of sweet corn cropping on Clubroot disease of cabbage in Nobeyama plateau Mayuko OKABE, Kou HATAKENAKA, Mikio SEKINUMA and Shigemitsu KASUGA Education and Research Center of Alpine Field Science, Faculty of Agriculture, Shinshu University

P2 Effects of anaerobic digested slurry on pathogen Tomomi Sugiyama, Mami Irie Dept. of International Agricultural Development, Tokyo University of Agriculture 1-1-1, Sakuragaoka, Setagaya, Tokyo, 156-8502 Japan

P3 EFFECT OF BIOACTIVE COMPOUNDS PRODUCED BY *Ralstonia pickettii* TT47 ON RICE SHEATH BLIGHT PATHOGEN *Rustam*¹, *Giyanto*², *Suryo Wiyono*², *Dwi Andreas Santosa*², *Slamet Susanto*² 1) Riau Assessment Institute of Agricultural Technology, 2) Bogor Agricultural University, Bogor, Indonesia

P4 Induction of somaclonal polyploids with colchicine treatment and characterization of polyploidy variants of water yam (*Dioscorea alata* L.) *Midori Iino¹, Fukiko Yamaguchi², Pachakkil Babil², Hidehiko Kikuno³, Kenji Irie^{1,2}, Hironobu Shiwachi^{1,2} ¹Graduate School of Tokyo Univ. Agri, ²Tokyo Univ. Agri, ³Miyako Subtropical Experimental Farm, Tokyo Univ. Agri, Japan.

P5 Effects of Paclobutrazol (PBZ), Water Stress and KNO₃ on the Flowering and Quality of Fruit on Mango (*Mangifera indica* L.) Hidehiko Kikuno¹, Atsushi Sanada², Tsuyoshi Haraoka², Syunichi Hirose², and Hironobu Shiwachi² ¹ Miyako Subtropical Experimental Farm, Tokyo University of Agriculture (TUA), Okinawa, Japan ² Department of International Agricultural Development, TUA, Japan

P6 NEW STATUS ON VIRAL DISEASE INCIDENCES ON CHILI PEPPER IN BALI, INDONESIA: EMERGING OF CHLOROSIS DISEASE IDN Nyana^{1,3}, T Rahayuningsih², G Suastika², IGRM Temaja¹ ¹Udayana University, Denpasar, Bali; ²Bogor Agricultural University, Bogor West Java, Indonesia;

P7 Predation Potentiality of *Sycanus* sp. to Control a Cabbage Pest In Bali Region KETUT AYU YULIADHI¹, I WAYAN SUPARTHA¹, I WAYAN SUSILA¹ DAN PUDJIANTO² ¹Faculty of Agriculture, Udayana University ²Bogor Agriculture University, Indonesia.

P8 BIOURINE AS ORGANIC FERTILIZER AND BIOPESTICIDES ON THE CAISIM (*Brassica var few. Parachinensis* L) ORGANIC FARMING Made Sudana G. N. Raka, Putu Sudiarta, and , G.N. Alit Susanta Wirya Faculty of Agriculture, Udayana University, Indonesia

P9 MUNGBEAN YELLOW MOSAIC INDIA AND BEAN COMMON MOSAIC VIRUSES INDUCED SEVERE EPIDEMIC OF YELLOWING AND MOSAIC DISEASES, RESPECTIVELY, ON YARDLONG BEAN IN BALI, INDONESIA TA Phabiola¹, G Suastika^{2,3}, S Nurulita², IDN Nyana¹, IGRM Temaja¹, M Sudana¹ ¹Udayana University, Denpasar, Bali; ²Bogor Agricultural University, Bogor, Indonesia;

P10 POSSIBLE RISK OF RICE YELLOW MOTTLE VIRUS IN SOUTHEAST ASIA Ayaka Uke*, Keiko T Natsuaki Department of International Agricultural Development, Graduate School of Agriculture, Tokyo University of Agriculture, Japan.

P11 FIRST REPORT ON CARROT-INFECTING PEPPER VEIN YELLOW VIRUS IN WEST JAVA, INDONESIA G Suastika*, IR Hasanah, IE Susanti Bogor Agricultural University, Indonesia

P12 COMPREHENSIVE GENE EXPRESSION ANALYSIS OF BLAST DISEASE REVEALED DIVERSE TRANSCRIPTIONAL PATTERNS AMONG MALAYSIAN RICE VARIETIES P. Azizi¹, M.Y. Rafii^{1,3}, M. Maziah², S.N.A. Abdullah⁴, M.M. Hanafi¹, M.A. Latif³, M. Sahebi¹ ¹Laboratory of Food Crops, Institute of Tropical Agriculture, Universiti Putra Malaysia, ² Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia. ³ Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, ⁴ Laboratory of Plantation Crops, Institute of Tropical Agriculture, Universiti Putra Malaysia, Malaysia.

P13 Occurrence of Citrus Rind Borer, *Prays endolemma* Diakonoff (Lepidoptera: Yponomeutidae) on Pummelo, *Citrus maxima* (Burm) Merr. (Rutaceae) in SODACO Farm, Calinan, Davao City Leslie T. Ubaub¹ and Virginia R. Ocampo² ¹Visayas State University, ViSCA, Baybay City, Leyte ²University of the Philippines-Los Baños, College, Laguna

P14 Development of a Protocol for Transport of Mango Pulp Weevil, *Sternochetus frigidus* (Fabr.) in the Philippines Louella Rowena J. Lorenzana¹ and Glenda B. Obra² ¹Department of Agriculture, Regional Field Office 4B, ²Philippine Nuclear Research Institute, Department of Science and Technology, Philippines

P15 QUALITY ASSESSMENT OF CALAMONDIN (*Citrofortunella microcarpa*) FRUIT TO DETERMINE THE MATURITY AND POSTHARVEST HANDLING SUITABLE FOR PROCESSING Yoshida, M¹, S. Yamada¹, T. Baba¹, Y. Kawai¹, J.U. Agravante², E.P. Serrano². ¹Tokyo University of Agriculture, Japan. ²Postharvest Horticulture Training and Research Center, Postharvest and Seed Sciences Division, Crop Science Cluster, College of Agriculture, University of the Philippines Los Baños College, Philippines

P16 Effect of kappa-casein desorption from casein micelle on the acid-coagulation of casein Daiki OKA¹, Tomohiro NOGUCHI¹, Katsumi TAKANO² ¹Food. Proc. Cent., Fac. Biosci., Tokyo Univ. Agric., ²Dept. Appl. Biol. Chem., Fac. Biosci., Tokyo Univ. Agric.

P17 Study on the utilization of soybean whey for processed foods Daiki Kanai¹, Eriko Wakamiya², Haruko Noguchi², Katsumi Takano² ¹Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric. ²Dept. Appl. Biol. Chem., Fac. Biosci. Tokyo Univ. Agric. Japan.

P18 A study of the properties of two different fermented wheat starches: Zyou and name Haruko Noguchi¹, Keisuke Maruyama², Katsumi Takano² ¹Dept. Appl. Biol. Chem., Fac. Biosci. Tokyo Univ. Agric. ²Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric. Japan

P19 Enzyme-producing microorganisms from the fermenting process of wheat starch Keisuke Maruyama¹, Haruko Noguchi², Masataka Uchino², Katsumi Takano² ¹Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric. ²Dept. Appl. Biol. Chem., Fac. Biosci. Tokyo Univ. Agric.

P20 The characteristics of starch surface proteins from starch granules Kouji SHIONO¹, Yoshimasa TUJII², Haruko NOGUCHI², Tomohiro NOGUCHI³, Katsumi, TAKANO² ¹Grad. Sch. Agr. Agrochem., ²Dept. Appl. BioSci. Biochem. Tokyo Univ. Agr. ³Dept. Appl. Biosci. FPC

P21 Discoloration of anthocyanin by ascorbic acid and dehydroascorbic acid with heating treatment Masanobu Ezaki¹, Haruko Noguchi², Yoshimasa Tsujii², Akio Tsukui² Katsumi Takano² ¹Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric. ²Dept. Appl. Biol. Chem.,

Fac.Biosci.Tokyo Univ.Agric.

P22 Analysis of PDI family expression in *Triticum aestivum* Osamu Tokumoto¹, Daiki Oka², Haruko Noguchi³, Tomohiro Noguchi², and Katsumi Takano³ Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric.²Fac. Biosci., FPC, Tokyo Univ. Agric.³Dept. Appl. Biol. Chem., Fac. Biosci. Tokyo Univ. Agric.

P23 THE PHYSICO-CHEMICAL PROPERTIES OF PREGELATINIZED RICE Takahiro Miki¹, Shinji Yatomi², Yoshimasa Tsujii³, Katsumi Takano³ ¹Agrichem.,Agr.,Grad.Sch.,Tokyo Univ.Agric. ²Alpha Food Co.,Ltd,Japan ³Dept.Appl.biol.chem.,Fac.Biosci.Tokyo Univ.Agric.

P24 Relationship between the PDI-ERO1 system and ascorbic acid during breadmaking Takatoshi Higuchi¹, Daiki Oka², Yoshimasa Tsujii³, Haruko Noguchi³, Tomohiro Noguchi², Katsumi Takano³ Agrichem.,Agr.,Grad.Sch.,Tokyo Univ.Agric. ²Fac.Biosci.,FPC,Tokyo Univ.Agric. ³Dept.Appl.Biol.chem.,Fac.Biosci.Tokyo Univ.Agric.

P25 Comprehensive analysis of the low-molecular weight compounds during Japanese rice cooking Yoshimasa Tsujii¹, Shingo Fukui¹, Hiromi Miyagawa², Satoshi Akimoto², Katsumi Takano¹ ¹Dept.Appl.biol.chem.,Fac.Biosci.Tokyo ²GL Sciences Inc., Japan

P26 The property of alpha-glucosidase for production of ethyl-alpha-glucoside by *Aspergillus kawachii* N-3 Masataka Uchino¹, Masashi Shionoya², Ryouji Kawata², Kotoyoshi Nakanishi³, Katsumi Takano¹ ¹Dept. Appl. Biol. Chem., Fac. Biosci. Tokyo Univ. Agric. ²Agrichem., Agr., Grad. Sch., Tokyo Univ. Agric. ³Brew. Ferment., Juior coll., Tokyo Univ. Agric., Japan.

P27 *In vitro* culture media for PLBs proliferation of *Oncidium Golden Anniversary* orchid Suhana Zakaria^{a,b}, Jessica Jeyanthi James Antony^a, Sreeramanan Subramaniam^a, Uma Rani Sinniah^c ^aSchool of Biological Sciences, Universiti Sains Malaysian, Penang, ^bFaculty of Base Industry, Universiti Malaysia Kelantan, ^cDepartment of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia

P28 Roles of tannin in mangrove root for supplying dissolved form of iron to ocean Misaki Aihara, Mami Irie, Yasuhiro Nakanishi, Tokyo University of Agriculture, Japan

P29 INSECT COMPOSITION IN MANGROVE FOREST OF SUNGAI CHUKAI, KEMAMAN Raja Nurul Nadia Raja Alang*, Nur Azura Adam and Rita Muhamad Department of Plant Protection, Universiti Putra Malaysia, Malaysia.

P30 UTILIZATION OF LANDSCAPE ORGANIC WASTE MATERIAL: THE UPLB WAY Fernando C. Sanchez, Jr. ^{1a}, Norma G. Medina^{1b}, Maria Charito E. Balladares^{1c}, Ryan Rodrigo P. Tayobong^{1d}, Bryan V. Apacionado^{1e} and Eliza C. Aquino^{1f} ¹University of the Philippines Los Baños, Laguna, Philippines

P31 Influence of crude extract product from green tea marc on antioxidative status and performance of transition dairy cows Sirirat Buaphan, Lerchat Boonek, Nakhonchai Unchuen and Nam Buathon Department of Animal Sciences, Faculty of Agriculture at Kampaeng Saen, Kasetsart University, Kampaeng Saen Campus, Nakhonpathom, Thailand

p32 Effect of probiotic and fermented soybean meal on weaning pig performance Tipmon Yaigate Tubkwang Research Station, Faculty of Agriculture, Kasetsart University

P33 SERVICE QUALITY SATISFACTION OF TOURIST IN EMW (ECOTOURISM OF MANGROVE WONOREJO), SURABAYA Effi Damajjati ¹ ¹ University of Pembangunan Nasional, East Java, Indonesia

P34 COCOA FARMING AND ANALYSIS OF ECONOMIC COMMUNITY FARMERS ESTATE IN EAST JAVA *Pawana Nur Indah* S3 students of the Faculty of Economics, Airlangga University Surabaya, Indonesia.

P35 Location Quotient (LQ) STRATEGY DEVELOPMENT DISTRICT AREA AGROPOLITAN PONOROGO PAWANA NUR INDAH¹, ZAINAL ABIDIN SAM² dan EFFI DAMAIJATI³ ¹ Faculty of Agriculture, ² Faculty Pertanian and ³ Faculty of Agriculture, University of National Development "Veteran" East Java, Indonesia

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P37 MODIFIED ATMOSPHERE PACKAGING (MAP) OF 'SABA' BANANA (*MUSA BBB*) FOR CHIPS MAKING Artes, L. A.¹ and Lizada, M.C.C.² ¹ University of the Philippines Los Banos, Philippines ² University of the Philippines Diliman, Philippines

P38 Sensory evaluation of Chinese sausage supplemented with white salted egg N. Sumon¹, T. Yaigate¹, W. Sumon¹, and S. Nakthong² ¹Tubkwang Research Station, Faculty of Agriculture, ²Faculty of Agriculture at Kamphaeng saen, Kasetsart University, Thailand

Tokyo NODAI Setagaya Campus Map with Congress Venues and Nearby Bus Stops



Bus Stop

B1 Nodai Seijingakko Mae 農大成人学校前	Tokyu Bus #23 from Shibuya via Sangenjaya Tokyu Bus # 01 from Denentoshi via Yoga)
B2 Nodai Seijingakko Mae 農大成人学校前	Tokyu Bus #23 to Shibuya via Sangenjaya Tokyu Bus # 01 to Denentoshi viaYoga)
B3 Nodai Mae 農大前	Tokyu Bus #23 or #24 to Shibuya via Sangenjaya
B4 Nodai Mae 農大前	Tokyu Bus #23 or #24 from Shibuya via Sangenjaya
B5 Nodai Mae 農大前	Tokyu Bus # 01 from Denentoshi viaYoga
B6 Nodai Mae 農大前	Tokyu Bus # 01 to Denentoshi viaYoga

Congress Venues

Check-In Desk	CIP, 2F NODAI Academia Center
Registration Area	YOKOI Hall (Nov 8, 8:00~12:00) Room 441, Building 1
Opening Ceremony, General Meeting, Keynote Speeches	YOKOI Hall, Basement, NODAI Academia Center
Plenary Session	Room 443, Building 1
Scientific Presentations and Poster Session	3F & 4F, Building 1
Welcome Reception and Sayonara Party	Green Restaurant, GF, Centennial Hall
Congress Tour Assembly Area	In front of NODAI Academia Center