

# CONFERENCE PROGRAMME PAPERS ABSTRACTS



6th International Conference on  
Sustainable Agriculture, Food  
and Energy.  
October 19 - 21, 2018 in MANILA,  
Philippines.

## Inclusive Agri-food Energy Production for Community Empowerment in a Changing Climate

16.00-17.20

Breakout Session 2

CHAIR: Dr. Ravindra Joshi, Country Coordinator (Fiji and Pacific Island)

SECRETARY: Dr. Irawati Chaniago, Andalas University (INDONESIA)

Venue: I'M Hotel Manila

Parallel Session	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
16.00-16.10	GRAIN YIELD, STABILITY AND ADAPTABILITY OF 11 PROSPECTIVE GENOTYPES ACROSS 16 MULTILLOCATION TRIALS  Irfan Suliansyah <sup>#</sup> , Aswaldi Anwar <sup>#</sup> , Etti Swasti <sup>#</sup> , and Budi Setyawan <sup>#</sup>  <sup>#</sup> Faculty of Agriculture, Andalas University, Padang 25163, West Sumatera, Indonesia	COMPOSITE BOARDS PROPERTIES FROM <i>ELAEIS GUINEENSIS</i> EMPTY FRUIT BUNCH  <sup>1</sup> Razak Wahab*, <sup>1</sup> Ros Syazmini Mohd Ghani, <sup>1</sup> Saiful Sulaiman, <sup>1</sup> Nasihah Mohdhar, <sup>2</sup> Siti Marlia Mohd Don, <sup>2</sup> Hashim W. Samsi, <sup>1</sup> University College of Technology Sarawak (UCTS), 96000 Sibu, Sarawak, MALAYSIA	OIL SPILL IMPACT ON ECOLOGY AND BIODIVERSITY IN THE SUNDARBANS OF BANGLADESH Mizanur Rahman Bhuiyan Soil, Water and Environment Discipline, Khulna University, Khulna, BANGLADESH	DECONTAMINATION OF PESTICIDE RESIDUES ON TANGERINE FRUIT USING NON-THERMAL PLASMA TECHNOLOGY C Sawangrat <sup>1</sup> , K Leksakul <sup>1</sup> , D Bonyawan <sup>2</sup> , T Anantana <sup>1</sup> and S Jomjunyong <sup>1</sup> <sup>1</sup> Industrial Engineering Department, Faculty of Engineering, Chiang Mai University THAILAND	COMMODITY PRICE AND THE PAYMENT FOR ECOSYSTEM SERVICE, CASE OF GAMBIER SMALL HOLDER PLANTATION WITHIN KOTO PANJANG HYDRO ELECTRIC POWER PLANT CATCHMENT AREA IN MAEK VILLAGE, LIMAPULUH KOTA DISTRICT, WEST SUMATRA PROVINCE, INDONESIA  Yonariza <sup>#</sup> , Mahdi <sup>#</sup> , Yuerlita <sup>**</sup> , Riri Marta Ramadani, Sefniwati, and Febry Setiawan <sup>#</sup> Department of Agricultural Socioeconomic, Universitas Andalas, Kampus Unand Limau Manis, Padang, 25161, Indonesia	THE PROMOTION OF BEEKEEPING AND BEE PRODUCT AND BY-PRODUCT DEVELOPMENT AT PSAU, PHILIPPINES  <i>Norman G. de Jesus<sup>*</sup>, Estrella C. Zabala, Elena B. Pineda, Regina D. Loria, Emmanuel Pangilinan and Honorio M. Soriano Jr</i> <i>Alternative Low Input Agricultural System, Pampango State Agricultural University, Magalang, Pampango PHILIPPINES</i>	THE QUANTITY AND QUALITY OF ROBUSTA COFFEE BEANS HARVESTED FROM DIFFERENT SLOPE STEEPNESS AND POSITIONS FOR THREE CONSECUTIVE YEARS OF STUDIES  Alnopr <sup>#</sup> , Bandi Hermawan <sup>#</sup> , Reny Herawati <sup>#</sup> , and Eka Jan Virgin Haquarsun <sup>#</sup> <sup>#</sup> Department of Agroecotechnology, University of Bengkulu, Jl. WR Supratman, Bengkulu, 38371A, Indonesia	LOOMING THREATS TO PLANTBIOSECURITY DURING TRADE AND EXCHANGE BEING A SERIOUS CONSTRAINT TOWARDS PROSPERITY UNDER SUSTAINABLE AGRICULTURE  Amitava Basu Head, Department of Plant Pathology, Faculty of Agriculture, BCKV, Mohanpur, Nadia, West Bengal, India, INDIA
16.10-16.15	SA/E-113	Product-67	PM-114	Product-40	PM-17	PM-45	PM-94	SA/E-88
16.15-16.20	SA/E-98	Product-68	PM-117	Product-46	PM-19	PM-46	PM-95	SA/E-90
16.20-16.25	SA/E-99	Product-69	PM-119	Product-47	PM-20	PM-47	PM-96	SA/E-91
16.25-16.30	SA/E-100	Product-70	PM-121	Product-48	PM-21	PM-49	PM-97	SA/E-93
16.30-16.35	SA/E-40	Product-71	PM-57	Product-49	PM-22	PM-54	PM-98	SA/E-95
16.35-16.40	SA/E-41	Product-72	PM-58	Product-50	PM-23	PM-59	PM-99	SA/E-96
16.40-16.45	SA/E-42	Product-74	PM-78	Product-51	PM-24	PM-60	PM-100	SA/E-97
16.45-16.50	SA/E-83	Product-75	PM-79	Product-52	PM-25	PM-61	PM-101	SA/E-104

PM-14	<p><b>PRINCIPAL COMPONENT ANALYSIS FOR SENSORY PROFILING OF RENDANG FROM VARIOUS REGION IN WEST SUMATRA</b></p> <p>Novizar Nazir, Tuty Anggraini, Lisa Rahayu Faculty of Agricultural Technology, Andalas University, Padang 25163, Indonesia. Email: nazir_novizar@ae.unand.ac.id; nazir_novizar@safe-network.org</p>
PM-15	<p><b>ANALYSIS INSTITUTIONAL OF MAIZE SUPPLY CHAIN TO INCREASING COMPETITIVENESS OF FEED INDUSTRY</b></p> <p>James Hollyward,<sup>#</sup> Nurhayati<sup>#</sup> Fitriani<sup>#</sup>, Elfi Rahmi<sup>#</sup> <sup>#</sup> Department of Bussines and Livestock Develepoment, Faculty of Animal Science Universitas Andalas, Limau Manih Campus, Padang, 25163 West Sumatera Indonesia. E-mail: nurhayati@faterna.unand.ac.id</p>
PM-16	<p><b>INSTITUTIONAL ISSUES IN COMMUNITY EMPOWERMENT THROUGH UTILIZATION VILLAGE FUNDS IN WEST SUMATRA PROVINCE</b></p> <p>Asrinaldi Department of Political Science, Andalas University. Kampus Limau Padang, Indonesia 25163. Email: asrinaldi4@yahoo.com</p>
PM-17	<p><b>THE INTEGRATED FARMING CHARACTERISTICS OF CORN AND CATTLE IN LIMA PULUH KOTA REGENCY</b></p> <p>Ulva Mohtar Lutfi, Riva Hendriani, and Mukhlis, Agricultural Polytechnic Payakumbuh, Indonesia. E-mail: mukhlisagus2014@gmail.com</p>
PM-18	<p><b>THE FARMING ANALYSIS OF RICE-CATTLE INTEGRATION SYSTEM ON SMALL SCALE IN LIMA PULUH KOTA REGENCY</b></p> <p>Mukhlis Agricultural Polytechnic Payakumbuh, Indonesia. E-mail: mukhlisagus2014@gmail.com</p>
PM-19	<p><b>PLANT VARIETY IDENTIFICATION SYSTEM BASE ON GENETIC PROGRAMMING FOR ANDROID ( Case study : Cassava (Manihot Utilissima Crantz) Classification</b></p> <p>Indra Laksmna<sup>1</sup>, Rosda Syelly<sup>2</sup>, Nurzarrah Tazar<sup>3</sup> <sup>1</sup>Department of Agricultural Engineering, Payakumbuh State Polytechnic of Agriculture, Jalan Raya Negara Km 7, TanjungPati, West Sumatra, Indonesia 26271. E-mail: indra@politaniptk.ac.id <sup>2</sup>Department of Computer Engineering, Payakumbuh School of Technology, Jalan Khatib Sulaiman Sawah Padang Payakumbuh, West Sumatra, 26227, Indonesia <sup>3</sup>Department of Food Technology, Payakumbuh State Polytechnic of Agriculture, Jalan Raya Negara Km 7, TanjungPati, Indonesia</p>
PM-20	<p><b>STUNTING OCCURENCE DETERMINANT TO ELEMENTARY SCHOOL STUDENTS IN KAPUR IX SUBDISTRICT LIMA PULUH KOTA REGENCY</b></p> <p>Rince Alfia Fadri<sup>1)</sup>, Sri Kembaryanti Putri<sup>1)</sup>, Salvia<sup>2)</sup>, Zulkifli<sup>3)</sup> <sup>1</sup>Food Technology Study Program of Agriculture Polytechnic State of Payakumbuh. email: alfiarince@gmail.com <sup>2</sup>Farm Study program of Agriculture Polytechnic State of Payakumbuh <sup>3</sup>Nutrition Study Program of Padang Health Polytechnic</p>
PM-21	<p><b>A POTENTIAL OF NATIVE PIG FARMING IN NUSA PENIDA ISLAND, BALI PROVINCE</b></p> <p>Putri, B.R.T; I.N. Suparta; N.M.S. Sukmawati, N.L.G. Sumardani; and D.A. Warmadewi Fakultas Peternakan Universitas Udayana, Jl PB Sudirman, Denpasar - Bali. Email: tonamaputri@unud.ac.id</p>
PM-22	<p><b>THE INFLUENCE OF AGE TO THE VOLUME AND MOTILITY OF LANDRACE BOARI'S SPERM AT BATURITI ARTIFICIAL INSEMINATION CENTRE</b></p> <p>N. L. G. Sumardani<sup>#</sup>, K. Budaarsa, T. I. Putri, A. W. Puger, N. L. P. Sriyani <sup>#</sup>Animal Reproduction Lab., Faculty of Animal Husbandry, Udayana University, Jl. P.B. Sudirman-Denpasar-80232-Bali-Indonesia. Email: nlg_sumardani@unud.ac.id</p>
PM-23	<p><b>METHODS ON MANAGING WATER POTENTIAL AND ARRANGEMENT RIVER ESTUARY AREA FOR MITIGATION THE CLIMATE CHANGE IN BALI</b></p> <p>I Gusti Agung Putu Eryani<sup>#</sup>, I Wayan Runa<sup>#</sup>, Made Widya Jayantari<sup>#</sup> <sup>#</sup> Civil Engineering, Warmadewa University, Terompong Street, Denpasar, 80239, Indonesia. E-mail: eryaniagung@gmail.com <sup>#</sup>Tenth of November Institute of Technology, Sukolilo Street, Surabaya, 60111, Indonesia. E-mail: widyajayantari13@gmail.com</p>
PM-24	<p><b>TOWARD ACHIEVING SELF-SUFFICIENCY LIVESTOCK</b></p> <p>Ni Made Ayu Gemuh Rasa Astiti Faculty of Agriculture, Warmadewa University, INDONESIA. E-mail: ayugemuh@gmail.com</p>
PM-25	<p><b>DEVELOPING OF BUSINESS COMPETENCY ASSESSMENT AND ENTREPRENEURIAL SPIRIT OF TOURISM SUPPORT SERVICES BASED ON COMMUNITY PARTICIPATION IN BALI DISTRICT</b></p> <p>Ni Nyoman Aryaningsih<sup>1</sup>, I Ketut Irianto<sup>2</sup>, Made Marsa Arsana<sup>2</sup>, Nyoman Meirejeki<sup>4</sup> <sup>1</sup>Accounting Department, Politeknik Negeri Bali, Badung, Bali, Indonesia; <sup>2</sup> Agricultural Faculty, Warmadewa University, Bali Indonesia. <sup>3</sup> Tourism Departement, Politeknik Negeri Bali, Badung, Bali, Indonesia. Email: nyomanaryaningsih@pnb.ac.id, iriantaketut@yahoo.co.id</p>
PM-26	<p><b>HIPOGLYCEMIC POTENTIAL OF MORINGA LEAVES (MORINGA OLEIFERA) ON BODY WEIGHT AND MALONDIALDEHYDE EXPRESSION OF PANCREAS LANGERHANS CELLS ON DIABETIC WISTAR RATS</b></p> <p><sup>1</sup>Ni Luh Eka Setiasih., <sup>1</sup> Luh Gde Sri Surya Heryani, <sup>1</sup>Ni Nyoman Werdi Susari, <sup>1</sup> Ni Nyoman Suarsana., <sup>2</sup>I Putu Sutirtayasa, <sup>1</sup> Ni Nyoman Mantik Astawa <sup>1</sup>Faculty of Veterinary Medicine, Udayana University, Bali, Indonesia.</p>

PM-18

## THE INTEGRATION SYSTEM FARMING CHARACTERISTICS OF RICE-CATTLE ON SMALL SCALE IN LIMA PULUH KOTA REGENCY

Mukhlis<sup>1</sup>, Melinda Noer<sup>2</sup>, Nofaldi<sup>2</sup>, Mahdi<sup>2</sup>

<sup>1</sup>Agricultural Sciences Study Program, Postgraduate Program, Andalas University, Indonesia, mukhlisagus2014@gmail.com

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**Abstract**—This study focuses on the characteristics of integration system farming of rice-cattle on small scale. This research is based on the amount of rice plant waste in the form of straw that is not utilized optimally, especially as cattle feed, straw is only burned by farmers after harvest so that it can cause air pollution. Then, the amount of livestock waste is in the form of cow feces produced by cattle. However, the waste of cow feces has not been utilized optimally. Cow feces are still stacked behind the cage causing air pollution. The results of study showed that The characteristics of rice-cow integrated system farming on small-scale include: the area of land cultivated is 0.1 - 0.5 hectares, with the ownership status of the land, saqaf (profit sharing) and the property of pawning; sources of irrigation come from irrigation and rainfed, with an average planting frequency of 2.5 times a year depending on rainfall conditions; seeds varieties used in farming are Junjuang, Kuriah Kusuk, Banang Pulau, Bakwan, Solcan and Putih Bukittinggi. Seed needs 35-50 kg per hectare; fertilizer used in farming is manure, UREA, SP-36, KCl, and NPK Ponska; Rice straw is used as animal food in the form of fresh straw; ownership of 1 - 5 cattle, with simmental and Balinese cattle; ownership status: own property, owned by investors and government assistance; animal feed consists of: grass or forage, straw, and concentrate; cattle waste is not processed which is stacked near the cage until it becomes manure which is ready to be used as fertilizer for rice plants.

**Keywords**— characteristic, Integrated, Corn, Cattle, small scale

PM-19

## PLANT VARIETY IDENTIFICATION SYSTEM BASE ON GENETIC PROGRAMMING FOR ANDROID ( CASE STUDY : CASSAVA (MANIHOT UTILISSIMA CRANTZ) CLASSIFICATION)

Indra Laksana<sup>1</sup>, Rosda Syelly<sup>2</sup>, Nurzarrah Tazar<sup>3</sup>

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<sup>3</sup>Department of Food Technology, Payakumbuh State Polytechnic of Agriculture, Jalan Raya Negara Km 7, TanjungPati, West Sumatra, Indonesia 26271.

**Abstract**— Cassava (*Manihot Utilissima Crantz*) is a prime commodity of Lima Puluh Kota reGENCY which has the highest production after rice. Usually cassava are processed into food, vegetables, animal feed, chips and others. Cassava varieties greatly affect the quality of the product produced. Previous research has obtained a model or rule identification system of cyanide acid. This was an application of Generic programming which is represented in the form of a tree with a system performance accuracy of 95.26% with a population parameter of 500,000, 20-25 nodes consisting of function set AND, OR, NOR and 52 terminal set, crossover probability is 0.9 and 0.1 mutation in 5 generations. Furthermore, this study used the same parameters in identifying the production needs of cassava, such as chips, tapai and flour and combines all rules. Rules obtained will be used as identification rules. All identification rules are applied in the form of web and android based applications. The Application designed to facilitate the community for identifying three cassava varieties based on the level of cyanide acid and can be used for sanjai, tapai or flour chips.

**Keywords**— Cassava, Cyanide acid, Genetic programming, android

Date : 30<sup>th</sup> AUGUST, 2018  
 Ref. No. : 424/SAFE-Network/SAFE2018/2018  
 Registration No : 2018-326

**Indra Laksana<sup>1</sup>, Rosda Syelly<sup>2</sup>, Nurzarrah Tazar<sup>3</sup>**

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<sup>3</sup>Department of Food Technology, Payakumbuh State Polytechnic of Agriculture, Jalan Raya Negara Km 7, TanjungPati, West Sumatra, Indonesia 26271.

Dear colleague,

**Acceptance to present a paper for the conference**

Thank you for submitting an abstract entitled:

**PLANT VARIETY IDENTIFICATION SYSTEM BASE ON GENETIC PROGRAMMING FOR ANDROID ( Case study : Cassava (*Manihot Utilissima Crantz*) Classification)**

for the International Conference-Sustainable Agriculture, Food and Energy (SAFE2018), Philippines, October 19-20, 2018

We are pleased to inform you that the committee has decided that your paper has been accepted for **oral presentation** in this conference. If you want to publish your paper, you must submit the original and unpublished full paper through the 6<sup>rd</sup> International Conference Sustainable Agriculture, Food, and Energy (SAFE2018) using [EasyChair for SAFE2018 Submission System](http://safe2018.safetainability.org) at <http://safe2018.safetainability.org> or by e-mail to: secretariat@safe-network.org **The full paper will be published in Scopus-indexed proceeding managed by IOP.** Please follow author guideline for proceeding template at <https://publishingsupport.iopscience.iop.org/author-guidelines-for-conference-proceedings/> The deadline for full paper submission is **September 15, 2018.**

Some important points to note are listed below for your reference.

<b>Venue</b>	I'M Hotel, Makati. Manila. Philippines
<b>Pre-Conference Tour</b>	Friday, October 19, 2018 Group 1: Manila-IRRI-UPLB-Tagaytay-Manila Group 2: Manila-Tagaytay-PhilMech Coffee Project-Manila Group 3: Manila City Tour [participants can choose according to their preference]
<b>Conference and Networking Discussion</b>	Saturday, October 20, 2018
<b>Registration Fee for Conference</b>	US \$130 for non-student, US \$ 90 for student and US \$ 90 for listeners/attendees.


<b>Deadlines</b>	Deadline for registration fee payment: <b>September 20, 2018.</b> Deadline for Full paper submission: <b>September 15, 2018.</b>
<b>Publication</b>	The full paper will be published in Q2 Scopus-indexed journal (IJASEIT) and IOP Scopus-indexed proceeding. The Scientific Committee will make a decision on this. Publication is optional and there is additional payment for publication!

Thank you very much and looking forward to seeing you in Makati, Philippines!

Regards,



**Dr. Paul Kristiansen**  
Head of Advisory Board



**Dr. Novizar Nazir**  
SAFE-Network Coordinator

## **BOHARI YAMIN BEST PAPER AWARD**

Dear Colleague,

SAFE-Network will present BOHARI YAMIN BEST PAPER AWARD to the individual (s) judged by an awards committee to have written the best paper appearing in the conference . The prize amount is **RM 500.00** presented to the author (s) who meet the following criteria.

1. Significance of the paper to the field of Sustainable agriculture, food and energy
2. Good and efficient title and abstract
3. Clear introduction and the objective is clearly mentioned
4. Use of appropriate methodological rigor;
5. Have discussion that can explain "why"
6. Clarity of writing and/or presentation.

Regards,

Dr. Novizar Nazir, Executive Chairman

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6<sup>th</sup> International Conference on  
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# CERTIFICATE

Asia Pacific Network for Sustainable Agriculture, Food, and Energy (SAFE-Network)  
Pampanga State Agricultural University (PSAU), Central Bicol State University of Agriculture (CBSUA),  
and Philippines Centre for Postharvest and Mechanization (PhilMech), PHILIPPINES.

Jointly certify that,

**Indra Laksmana**

**PRESENTER**

International Conference-Sustainable Agriculture, Food and Energy.  
MANILA, Philippines. October 19 - 21, 2018

**"Inclusive Agri-food Energy Production for Community Empowerment in a Changing Climate"**

**Dr. Novizar Nazir**  
SAFE Network Coordinator  
Andalas University  
INDONESIA.



**Dr. Norman De Jesus**  
Local Conference Coordinator  
Pampanga State Agricultural University  
PHILIPPINES.





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Nomor : 5262 /PL25/LL/2018

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KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI

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30	Dr. Wiwik Hardaningsih, SP, MP NIP. 196902272003122002	Penata TK I / III.d	Staf Pengajar
31	Ir. Nelson Elita, M.P NIP. 196103111989032001	Pembina Utama Muda / IV.c	Staf Pengajar
32	Dr. Ir. Fardedi, M.Si NIP. 196211111989031007	Pembina/ IV.a	Staf Pengajar
33	Ir. Ismet Suryadi, M.Si NIP. 196007081988111001	Pembina Tk. I/ IV.b	Staf Pengajar
34	Ir. Rita Erlinda, MP Nip. 196809031994032003	Pembina Tk. I/ IV.b	Staf Pengajar

Untuk mengikuti "International Conference-Sustainable Agriculture Food and Energy (SAFE 2018) di I'M Hotel, Makati, Manila Philippines pada tanggal 16 s/d 21 Oktober 2018.

Demikian surat tugas ini dibuat agar dapat dilaksanakan dengan sebaik – baiknya.

15 Oktober 2018

Direktur,



Ir. Elvin Hasman, MP

NIP. 196306291992031002