

PROCEEDING

INTERNATIONAL CONFERENCE ON AGRICULTURE AND APPLIED SCIENCE

CONTRIBUTION OF APPLIED SCIENCE AND AGRICULTURE FOR SOCIAL PROSPERITY



Organized By :

Unit Research and Community Service. Politeknik Negeri Lampung



**PROCEEDINGS of the
3rd Polinela Internaitonal Conference on Agriculture and
Applied Science (ICOAAS)**

**Theme “Applied Science and Technology Farming in Post
Pandemic Era”**

Bandar Lampung, November 15th, 2022

**Penerbit :
Unit Penelitian dan Pengabdian Kepada Masyarakat
POLITEKNIK NEGERI LAMPUNG
BANDAR LAMPUNG**

RI National Library: Catalog in Publication (KDT)
E-ISSN : 2776-043X

**PROCEEDINGS of the
3rd Polinela Internaitonal Conference on Agriculture and Applied Science
(ICOAAS)**

Theme “Applied Science and Technology Farming in Post Pandemic Era”

2022, I, 169 pp. 21,0 x 29,7 cm

Copyright © at the publisher

Editor in chief :
Dr. Dwi Desmiyeni Putri, M.Si.

Editor technic :
Yan Sukmawan, S.P., M.Si.
Edy Humaidi, S.P., M.Si.
Kresna Sifa Usodri, S.P., M.Si.

Copyright Protected
Reproduction of the contents of this book in any way is prohibited
Without written permission from author

Publisher
UP Politteknik Negeri Lampung
Bandar Lampung
2023

**PROCEEDINGS of the
3rd Polinela Internaitonal Conference on Agriculture and Applied Science
(ICOAAS)**

Committee :

Chairman of Organizing Committee	: Dr. Ir. Yana Sukaryana, M.P.
Editor in Chief	: Dr. Dwi Desmiyeni Putri, M.Si.
Editor Technic	: 1. Yan Sukmawan, S.P., M.Si. 2. Edy Humaidi, S.P., M.Si. 3. Kresna Sifa Usodri, S.P., M.Si.
IT Committee Cordinator	: Dr. Septafiansyah Dwi Putra, S.T., M.T.
IT Committee Support	: Oki Arifin, S.Kom., M.Cs.
Event Conferece Coordinator	: 1. Desi Maulida, S.P., M.Si. 2. Dayang Berliana, S.P., M.Si.
Social, Finance, and Event Program	: Intan Kamilia Habsari, S.Pt., M.Pt.
Publication and Book Program	: Dimas Prakoswo Widiyani, S.P., M.P.
IT Operator Coordinator	: Septa Manhalul Latif
Supporting Staff	: 1. Suharja, S.T. 2. Husna

Scientific Committee :

Anung Wahyudi, S.P., M.Sc., Ph.D.	: Politeknik Negeri Lampung, Indonesia
Dr. Chandra Utami Wirawati, S.T.P., M.Si.	: Politeknik Negeri Lampung, Indonesia
Dr. drh. Dwi Desmiyeni Putri, M.Si.	: Politeknik Negeri Lampung, Indonesia
Dr. Dulbari, S.P., M.Si.	: Politeknik Negeri Lampung, Indonesia
Dr. Fitriani, S.P., M.E.P.	: Politeknik Negeri Lampung, Indonesia
Dr. Henry Kurniawan, S.Si., M.Stat.	: Politeknik Negeri Lampung, Indonesia
Dr. Ir. Ni Siluh Putu Nuryanti, M.P.	: Politeknik Negeri Lampung, Indonesia
Dr. Ir. Nurbani Kalsum, M.Si.	: Politeknik Negeri Lampung, Indonesia
Dr. Ir. Saroni, M.Si.	: Politeknik Negeri Lampung, Indonesia
Dr. Ir. Suraya Kaffi Syahpura, M.T.A.	: Politeknik Negeri Lampung, Indonesia

Dr. Ir. Yana Sukaryana, M.P. : Politeknik Negeri Lampung, Indonesia
Dr. Irmayani Noer, S.P., M.Si. : Politeknik Negeri Lampung, Indonesia
Dr. Ninik Purbosari, S.Pi., M.Si. : Politeknik Negeri Lampung, Indonesia
Dr. Nuning Mahmudah Noor, S.Pi. M.P. : Politeknik Negeri Lampung, Indonesia
Dr. Nurhayati, S.Pt., M.P. : Politeknik Negeri Lampung, Indonesia
Dr. Oktaf Rina, S.Si., M.Si. : Politeknik Negeri Lampung, Indonesia
Dr. Rakhmawati, S.Pi., M.Si. : Politeknik Negeri Lampung, Indonesia
Dr. Septafiansyah Dwi Putra, S.T., M.T. : Politeknik Negeri Lampung, Indonesia
Dr. T. Imam Sofi'i, S.T.P., M.Si. : Politeknik Negeri Lampung, Indonesia
Dwi Eva Nirmagustina, S.P., M.Si., Ph.D. : Politeknik Negeri Lampung, Indonesia
Meinilwita Yulia, S.T.P., M.Agr.Sc. : Politeknik Negeri Lampung, Indonesia

FOREWORD

The International Conference is intended to provide technical forum and research discussion on Agriculture and Biotechnology, Agriculture Engineering, Agroindustry and Agribusiness, Animal and Fish Science, Food Safety, Security and Sovereignty, Food Science and Technology, IT for Agriculture, Renewable and Novel Energy Sources. It is aimed to bring research, academicians, scientists, students, and practitioners together to participate and present the last research findings, development, and applications related to various aspcts.

Internaitonal Conference on Agriculture and Applied Science (ICOAAS) Theme “Applied Science and Technology Farming in Post Pandemic Era” was the first activity carried out by the Politeknik Negeri Lampung Unit Penelitian dan Pengabdian Kepada Masyarakat (UPPM). This Conference is a gathering place for lecturers to dicuss and exchange ideas in the application of research results that can be disseminated to be public.

We hope that through this International Conference Politkenik Negeri Lampung can contribute to the development of science and disseminate research result to public.

Bandar Lampung, Februari 2023

Dr. Ir. Yana Sukaryana, M.P.

TABLE OF CONTENTS

1.	Pore Block Non Cement As Solution To Rain Founding Iskandar Zulkarnain, Andy Eka Saputra, Kelik Istanto	1-8
2.	Identification of Rice Disease Types Based on Digital Images Leaves Using Algorithm Support Vector Machine (SVM) Kurniawan Saputra, Zuriati Zuriati	9-16
3.	The Implementation of Rapid Application Development (RAD) Method at Aquaponics Cultivation Monitoring System Zuriati Zuriati, Dulbari Dulbari, Dewi Kania Widyawati	17-23
4.	Antibacterial Activity of Buffalo Curd against Propionibacterium acnes Bacteria and its Antioxidant Content as a Natural Facial Treatment Delli Lefiana, Dihan Kurnia, Devi Kumala Sari	24-30
5.	Prediction of Powdered Coffee Brands Based on Aroma Using Electronic Nose and Artificial Neural Networks Imam Sofi'i, Zainal Arifin, Harmen Harmen	31-36
6.	Germination of Black Soy Bean Generation Mutan 4 (M4) S.N. Andini, R. Dewi, G. Tianigut	37-40
7.	Micropropagation of Java Cardamom (Amomum compactum) Lukita Devy, Henti Rosdayanti, Hayat Khoiriyah, Tati Sukarnih, Karyanti Karyanti, Winda Nawfetrias, Sasanti Widiarsih, Cheppy Syukur, Adi Setiadi, Yuda Purwana Roswanjaya	41-49
8.	Potato Leaf Disease Detection with Convolutional Neural Network Method TS Jaya , D Sahlinal	50-58
9.	Serum Biochemical Indices Of Rabbit Doe Fed Biscuit Diets Containing Moringa Oleifera Lamm Based On Urban Organic Waste Mubarak Akbar, Efi Rokana, Widya Paramita Lokapirnasari, Erma Safitri, Reka Darmawan, Muhammad Jaenal Fauzi	59-63
10.	Application of Multiple Fertilizers and White KNO ₃ to Increase Pepper Plant Growth Adryade Reshi Gusta, Made Same, I Nyoman Dewa	64-68

11. Inventory of Traditional Fishing Gear in Floodplain at Pedamaran, Ogan Komering Ilir, South Sumatera
Anita Karolina, Vera Ardelia **69-73**
12. The Effect of Online Learning on Student's Academic Achievement for Accounting Subject
Artie Arditha Rachman, Dian Nirmala Dewi, Endang Asliana **74-78**
13. Identification of microclimate conditions in cocoa plantations (Theobroma cacao L.) At Gedong Tataan sub-district, Pesawaran
DP Widiyani, JSS Hartono, AM Santika **79-82**
14. Inventory of superior cocoa (Theobroma cacao L.) clones in Gedong Tataan sub-district Pesawaran
DP Widiyani, JSS Hartono, Lela Mispandi **83-87**
15. The Optimalization of Probiotic Based Liquid, Powder and Combination on Broiler Performance
Susanti Susanti, Cintia Agustin Patria, Nurul Azizah Usman, Raymundus Genty Laras **88-90**
16. Study Of Pruning On Growth Recovery Of Oil Palm (Elaeis guineensis Jacq.) Seeds Affected By Leaf Spots In Main – Nursery.
Kresna Shifa Usodri, Bambang Utoyo **91-94**
17. Infection of Gastrointestinal Parasite on Goat (Capra aegagrus hircus) at Rajabasa Lama Village East Lampung District
V.R. Pertiwi, N. Riffiandi, A. Sofiana **95-97**
18. Effect of Vitamin E Supplementation and Storage Duration on Egg Physical Quality of IPB-D2 Candidate Chicken Strain
Rizky Nadia, Sumiati Sumiati, Tuti Suryati **98-106**
19. The Effect Of KNO_3 And Kieserite Fertilization On The Growth Of Palm Oil (Elaeis Guineensis Jacq.) Seeds That Attack Leaf Flot In Main Nursery
Bambang Utoyo, Kresna Shifa Usodri, Rika Meri Azleni **107-110**
20. Land Suitability Evaluation Of Liberika Coffee On Sub Optimal Land, Langsa Timur Sub District, Langsa, Aceh
Rosmaiti Rosmaiti, Iswahyudi Iswahyudi **111-119**
21. Comparison study of vines rope and bracket pot systems on melon ginsen and ougan makuwauri
A Wahyudi, R Putri, MF Sari **120-123**

ICOAAS International Conference on Agriculture and Applied Science



Supported By :

