

Programme and Abstracts

PINAL SEMINAR

15th December 2018

Faculty of Plantation and Agrotechnology Universiti Teknologi MARA Melaka Branch, Jasin Campus 77300 Merlimau, Melaka, Malaysia

PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PIMES) Melaka, Malaysia December 15, 2018

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DEAN PREFACE



Assalamualaikum Warahmatulllahi Wabarakatuh

My heartiest congratulations go to the Committees for successfully organized PIMES September 2018. PiMES September 2018 enables lecturers and panels from strong industrial background to reflect and share significant ideas, experiences and research findings in the workplace and in partnerships. It is also hoped to encourage collaboration among the lecturers and enhance the quality and performance of the faculty. The research findings derived from this substantial event shall indicate the commitment of lecturers not only in teaching, but also in striving to unfold new knowledge and processes that will benefit the nation. The efforts of our lecturers need to be further extended to a wider audience so that the nation will benefit from the research findings. It is also hoped that, the proceedings will trigger serious thought and more robust research in the field of education as well as plantation and technology so as to help Malaysia achieve Vision 2020.

As we know, agriculture production has increased tremendously today because of the demand from various sectors in the world. To meet the challenges of increasing food demand, techniques and ways should be created to improve productivity, profitability and sustainability of the agricultural system. Industrial agricultural system has led to irretrievably changes in the landscape diversity, soil quality, environment integrity, and natural resource base. This has resulted major questions and curiosity worldwide in relation to the sustainability of agricultural production system. The most significant damage to natural ecosystems and the environment was caused by habitat conversion and corresponding climate change, loss of biodiversity and ecosystem functions, soil erosion and degradation, and pollution from fertilizers and pesticides. Concepts in plant protection have changed in past decades from exclusion or destruction of pest to pest management. Serious problems with pesticides, rapid development of new approaches and techniques in pest management based on improved knowledge of pest dynamics and their natural enemies, and the interaction between the pest and the crop.

It remains only for me to thank all those who have helped to make this events such a great and wonderful success. Much appreciation is due to the board editor, and reviewers of all papers submitted as well as to all authors whose ideas and contributions ensured rich and lively discussion during the various sessions.

DEAN. Assoc Prof Dr Asmah Awal

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INTRODUCTION

The PiMES committee and UiTM (Melaka), Jasin Campus residents are very pleased to welcome all participants in the Plantation and Management Seminar (PIMES) which is organized by Faculty and Agrotechnology.

PiMES aims to give an exposure to the students about the procedure to make a poster by extracting information from their final year project. This seminar will sharpen their communication skill as well as they can exchange and share their research result, projects, experiences and new ideas related to all aspects of studies in plantation management and agribussiness, plant sciences, soil sciences, plant protection, plant biotechnology and agricultural engineering. We sincerely hope that you will enjoy and return home with plenty of inspiration to improve agro-industry plantation practices and research activities.

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ACCEPTANCE OF SMALLHOLDERS TOWARD TECHNOLOGY APPLICATION IN OIL PALM PLANTATION

Nurain Zamrut, Nuraziera Ruslan*

Faculty of Plantation and Agrotechnology. UiTM (Malacca) Jasin Campus, 77300. Malacca.

Corresponding Author: nuraziera@melaka.uitm.edu.my

ABSTRACT

Oil palm plantation is one of the most important sector that contribute to Malaysian GDP. In order to develop this sector, technology has become one of the main components to improve the productivity of palm oil. However, the application of technology in oil palm plantation has remain low as smallholders are still depends on manual tools. This study was carried out to examine the acceptance of smallholders toward technology application in oil palm plantation. There are four independent variables as factors influences acceptance of technology which are attitude, subjective norm, perceive behavioral and extension agent. This study was conducted at Kg Mawai, Kota Tinggi, Johor among 152 smallholder that chosen randomly to answer the questionnaire via face to face interview. Reliability test, correlation analysis and multiple regression analysis was used to analyze the gathered data. To indicate result that extension agent has a strong positive correlation (p=0.638) and attitude has a very weak positive correlation (p=0.098). Meanwhile, multiple regression analysis indicates that 58.2% of acceptance technology application was explained by independent variables and another 41.8% was explained by other factors. The most influence independent variable was extension agent with the highest 8-value which is 0.664 and the lowest influence independent variable was perceive behavioral control with the lowest B-value which is 0.024. In conclusion, technology application lead to be more productive and high income achievement in order to get high yield and sustain oil palm production.

Keywords: technology application, acceptance, smallholders, productivity, attitude