



Programme and Abstracts

PIMES

**PLANTATION MANAGEMENT
EXHIBITION & SEMINAR**

15th December 2018

Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA
Melaka Branch, Jasin Campus
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PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)

Melaka, Malaysia

December 15, 2018

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DEAN PREFACE



Assalamualaikum Warahmatullahi 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 pest resistance, environmental effects of pesticides, and high costs led to 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 agribusiness, 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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THE IMPACT OF MSPO TOWARDS ENVIRONMENT AMONG WORKERS IN SPPK.

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ABSTRACT

In Malaysia, oil palm is the most crop that are planted in the field because the demand of palm oil is rising from year to year. Improper good management practices for opening new area and managing the field for oil palm plantation purpose give huge impact on environment. To ensure the sustainability of oil palm in Malaysia, Malaysia Standard Palm Oil (MSPO) standard was launched on 2013 for sustaining oil palm plantation without harming the planet and people. By the end of the year 2019, MSPO standard has been mandatory for all growers. The purpose of this study is to identify the factors and relationship between impact of MSPO and environment. This study consists of training, knowledge and estate support as independent variables. This study is conducted at Syarikat Perladangan Peserta Kundang Ulu, Tangkak, Johor and from 62 populations. 52 samples randomly selected to answer the questionnaire survey as respondents. All the variables are positive relationship but the strongest relationship toward dependent variable are training and knowledge. The results showed the value of R^2 was 0.247 which indicate 25% of independent variable have been identified in this study and the rest are not included in this study. Hence, it can conclude that, the most dominant and significant factors that impact on environment are training and knowledge. Meanwhile, estate support is not significant factor that impact on environment because workers are lack received support from the estate.

Keywords: Impact, Environment, sustainability, Oil Palm, Malaysia Standard Oil Palm (MSPO).