



*Programme and Abstracts*

# PIMES

**PLANTATION MANAGEMENT  
EXHIBITION & 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 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.

**KNOWLEDGE AND PERCEPTION IN IMPLEMENTING PRINCIPLE 1-4  
OF MSPO AMONG INDEPENDENT SMALLHOLDER CASE OF SUNGAI  
RAMBAI, MELAKA**

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**ABSTRACT**

The oil palm plantations in Malaysia are largely based on the estate management system and smallholder scheme. The area planted was increasing rapidly from 1.8 million hectares in 1985 becoming a 5.81 million hectare in 2017. However, independent smallholders has possessed a major threat towards Malaysia such as lacking in term of documentation preparation, awareness and higher in cost implementation. Thus, it is perceive that this sector is unproductive and inefficient as compared to the large-scale production system of the estate sector as they are tend to not achieved the standard principle in existing sustainability standard. In this study, researcher are decided to study about knowledge and perception of Principle 1-4 Malaysian Sustainable Oil Palm (MSPO) among independent smallholder in Malaysia. This study are conducted in Sungai Rambai, Melaka. The population size of this study is about 50 smallholders. For this study, the researcher needs only 44 samples to analyse based on Krejcie and Morgan table. The questionnaires will be use to collect data and the questionnaires will be distributed to the selected smallholders. Pearson correlation is use to analysed the relationship between independent and dependent variables which independent refer to knowledge and perceptions while the dependent variables is referring to principle 1-4 of MSPO. Finding of this study had shown there is a significant and non-significant relationship between the two variables that stated earlier. It proved that perception of independent smallholder are most dominant toward principle 1-4 of MSPO certification in Malaysia.

*Keywords: knowledge, perception, sustainability, oil palm, independent, smallholder*