



*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*

NO	CONTENTS	PAGES
1.	The Dean, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA	1
2.	Introduction PiMES	3
3.	Committees	4
4.	Schedule of PiMES	5
5.	Room Distribution For Poster Presentation	7
6.	Distribution For Poster Presentation	8
7.	Abstracts	29
8.	List Of Panels Industries	241

# **PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)**

*Melaka, Malaysia  
December 15, 2018*

## **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*

# ***PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)***

*Melaka, Malaysia*

*December 15, 2018*

## **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.

## **OPERATION AT TRIDEWINDS PLANTATION**

**Safwan Yusri, Muhammad Aliuddin\***

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

*Corresponding Author:  
muhdsafwanyusri@gmail.com*

### **ABSTRACT**

Farm mechanization in Tradewinds plantation was used to minimize the labor. In Tradewinds plantation have 3000 hectare area oil palm. A survey using the secondary data last 4 years ago to know the total cost of operation on oil palm plantation. According a survey for the total cost was including the fixed cost and operation cost for get the total cost of operation at plantation. To identified the operation cost that was including the fuel cost and maintenance cost that affect the total cost of operation. The data what was collected try to identify factor of increasing the total cost for operation. The main factor of total cost is maintenance cost that effect the total cost of operation. All data was use the Microsoft Excel to list down all cost including in operation cost. For the operation cost was calculate the deprecation, tax, shelter and insurance. Based on analysis previous four years of total cost in year 2017 is RM 38,680.03 are higher compare another year. The lower total cost in year 2015 is RM 29,835.20 are the lower cost of operation in plantation. However, all the total cost have factor that effect the higher and lower total cost of operation such as the maintance and repair cost.

*Keywords: fixed cost, operation cost, total cost, oil palm*