



*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*

<b>NO</b>	<b>CONTENTS</b>	<b>PAGES</b>
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

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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.

**COMPARISON WATER QUALITY IN SERI MENDAPAT AREA AND  
MERLIMAU AREA (ELAEIS GUINEENSIS)**

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**ABSTRACT**

Water quality is important for oil palm plantation. It is because water quality have component such as water salinity and water pH in water structures. The water salinity and water pH is important for plantation to give the yield. Because when the plant are up take good water quality give the good feedback from plant. The study was conducted to compare the average the mean of water pH, water salinity (NaCl) and total dissolved solids (TDS). The area of study is Kampung Seri Mendapat area and Merlimau area. The crop focus is oil plant plantation (*elaeis guineensis*). The data are collected at the evening thursday every week, the have 10 sample water are collected every week. The sample are collected at same point every week and have 4 replication. The data collected 5 sample from kampung Seri Mendapat area and other 5 sample Merlimau area. The materials used is the cyberscan PCD 650 is measures pH, ORP, Ion, Conductivity, Total Dissolved Solids, Salinity, Resistivity, Dissolved Oxygen, Temperature. Our top of the line waterproof handheld that enables concurrent measurement of pH, conductivity, dissolved oxygen and temperature, all at the same time. The average mean of water pH for Kampung Seri Mendapat area is 3.45 pH and merlimau is 3.86 pH. The level of Ph for the both area is acidity level. For average water salinity is Kampung Seri Mendapat area is 438.94 ppm and Merlimau is 354.97 ppm. For the Merlimau water salinity level is low level salinity and Seri Mendapat is moderately salinity level. Total Dissolved Solids mean is Kampung Seri Mendapat area is 442.20 ppm and Merlimau is 358.24 ppm. For TDS Seri Mendapat is good condition and the excellent condition for Merlimau area.

*Keywords: water pH, water salinity, total dissolved solid, the average of mean*