



*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.

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## **FACTORS OF UNEVEN GROWTH IN OIL PALM SEEDLINGS IN BETWEEN TWO NURSERIES IN BUKIT GAMBIR, JOHOR**

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### **ABSTRACT**

Oil palm is a commodity crop that important to the country since it was contributing to the national income. By looking to the issues, it is really important to ensure that the oil palm that being marketed is having a quality and in a good condition. Planting materials are very important component to ensure the success of growing the oil palm plantation. Therefore, it is important in having a good oil palm seedling from a good oil palm nursery that being managed well. There are several parameter that we can observed in order to know the performance of the seedlings: height, number of fronds, colour of the leaves and some other scientific criteria. In this cases, height is the main parameter that being taken in order to measure the performance of the seedling. If the age of the seedling is the same but the height is difference, this show that either the seedling is being attack by diseases or less basic requirement. This is important to ensure they can growth vigorously at the same rate of height when being transfer to the field. It is also importance to know the factor that causes the uneven growth because, it'll easier to prevent the thing from become worst and many actions can be taken. To be more specific, soil and leaves analysis is being carried out in order to know the nutrient content in the soil and leaves, either the bad growth is come from the fertilizer application or not. The research also explains that the higher the height of plant, the healthier the plant will be. The result of this research showing that there is no significant difference in between the two nurseries that located nearby.

*Keywords: height, number of fronds, Potassium, Calcium, Magnesium*