



*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.

## PLANTATION AND MANAGEMENT SEMINAR 2018 (PiMES)

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### POPULATION DYNAMICS OF *A. INDICA* IN FELCRA PAYA JENUANG

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#### ABSTRACT

A study on population of *Aulacophora indica* in young oil palm plantation was done in Felcra Paya Jenuang, Merlimau, Melaka from 25<sup>th</sup> July 2018 until 14<sup>th</sup> August 2018. The study aimed to determine the population of *Aulacophora indica* on different sampling dates and on different traps used. Previous study has shown *Aulacophora indica* preference to the family of *Cucurbitaceae* as host plant. Yellow pan trap and manual method were used as sampling methods. The yellow pan trap contained soapy water while manual method such as sweeping net was used. Initial assumptions were done in which sampling done in different date was believed to have effect on number of *A. indica* collected. It is also believed that usage of yellow pan trap will yield more result as compare to manual method. Interval of 3 days for each sampling method was practiced. This measure was taken to ensure the uniformity of sampling time for both methods. Study area was divided into 10 strata of 1 hectare each. 4 strata were used as sampling area. Results for different sampling dates has shown no significant difference while results for different type of traps used has shown a significant difference among them. One-way Anova analysis resulted in ( $F=0.696$ ,  $df=5,138$  &  $P>0.01$ ) for different sampling date while unpaired t-test analysis resulted in ( $F=34.062$ ,  $df=142,88.728$  &  $P<0.01$ ) for different type of traps used. The study has shown that economic threshold level of *Aulocophora indica* was reached. Each palm experienced more than 20% damage thus appropriate control methods were suggested.

*Keywords: Aulacophora indica, chrysomelidae, coleoptera, oil palm, pest, Felcra*