



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.

**A STUDY OF POPULATION OF WEED ON DIRECT SEEDED
PLANTING SYSTEM**

Noor Asmanizan Seman, Shafiq Sani *

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

Corresponding Author:

shafiq487@melaka.uitm.edu.my (Shafiq Sani)

ABSTRACT

Weed is well known as the main competitor in a rice field and excessive weed lead to the reduction of rice yield as it compete with rice in terms of space, nutrients and also as nesting place for the pest. The composition of the weed in the rice field been identified becomes wider after the direct seeded applied since 1985. Hence, the survey had been done at rice field that applying the direct seeded planting system to know the population of weed that exist and the most abundance weed. The method use for the data collection is the sampling technique using quadrat method with systematically sampling. The frequency, relative frequency, density and relative density identified by using the formula that been formulate by Hossain et al and Wirjahadja and Pancho, 1978. The outcome from the data collected during the field survey, there are six diverse species of 5 family which were Cyperaceae, followed by Onagrace, Pontederiaceae, Lentibulariaceae and Poaceae. The outmost weeds in the field based on the relative frequency is *Monochoria vaginalis* with 78.95% meanwhile the one that have the highest density is *Ludwigia octovalvis* which the relative density is 31.25%. Both weed should be the main attention while choosing the right herbicide so that the application of the herbicide are effective. The recommendation of herbicides that can be used to kill both weeds was butachlor together with propanil at the recommended rate and time.

Keywords: Rice, weed's population, abundance, herbicide