



Programme and Abstracts

PIMES

**PLANTATION MANAGEMENT
EXHIBITION & SEMINAR**

15th December 2018

Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA
Melaka Branch, Jasin Campus
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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.

**THE EFFECT OF LATE FOLIAR APPLICATION ON RICE SEED
PRODUCTION**

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ABSTRACT

Low production in rice sector was one of besetting problem in Malaysia. As the demand of the rice is continuously increasing especially in Asian region, production of rice should also be increased. A study was conducted to see the effect of late foliar application on the grain production of rice. By applying the foliar fertilizer during later stage of rice growth, the nutrient can be directly absorbed by the rice for grain production. instead of vegetative development. This study conducted in greenhouse located at UiTM Jasin by using randomized control block design (RCBD). The treatments were application of different dosage of foliar fertilizer in two varieties of rice. MR 219 and MR 269 to see the effectiveness in improving grain production. Treatment one act as control with 0% of foliar application, treatment 2 with 50% of foliar application, treatment 3 with 100% and treatment 4 with 150% dosage. SPAD, height, grain, panicle, straw and biomass were measured during the study. Plant height, SPAD, panicle, straw, did not showed any significant difference among the treatment but result in grain. 100 grain, and straw show significant difference between the treatments. Applying foliar fertilizer in treatment 2, 3 and 4, there was a different in total weight comparing with treatment 1. Result also showed weight in 100 grain between treatments is different. There was higher 100 grain in treatment 4 comparing with other.

Keywords: foliar application, dosage, treatment, grain production,