



Programme and Abstracts

PIMES

**PLANTATION MANAGEMENT
EXHIBITION & SEMINAR**

15th December 2018

Faculty of Plantation and Agrotechnology
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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.

**ENHANCEMENT OF AEROBIC RICE CULTIVAR BY EFFECTIVE
MICROORGANISM APPLICATION AT DIFFERENT GROWTH STAGES**

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ABSTRACT

The excessive using of fertilizer in agricultural can cause to major drawback which is; high producing cost; and cause of environmental pollution. The objectives of this project is to observed the effect of effective microorganism application to the soil towards paddy biomass production and we choose to using water stress resistance rice variety which is the variety that can be cultivate without using flooding. Effective microorganism is a major interest in environment study in effort to conserve the environment by using a good microbe to enhance the soil properties and minimize water pollution at the same time. This study is conducted in actual environment at ShareFarm UiTM Malacca campus Jasin. The treatment involve is; control without effective microorganism; early stage application of effective microorganism (at 15 DAS); and application on late vegetative stage (at 45 DAS). The experimental design is RCBD with 3 treatment, 2 replication and in 4 block. Each sample of the treatment is divided in individual bed with size 1ft x 1ft. Beside, paddy in each treatment T1, T2, and T3 has been apply with NPK and urea fertilizer 1.8g per bed and 1.5g per bed, respectively. The application of fertilizer has done at 14 DAS and 44 DAS. The sample has been through oven dry to measure the actual dry biomass. The result parameter is plant dry biomass, root:shoot dry biomass ratio, and number of tillers. The overall results showed that there is no significant difference (sig 64%) between treatment.

Keywords: Effective Microorganism, Biomass & Paddy Growth