

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

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Melaka, Malaysia December 15, 2018

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DEAN PREFACE



Assalamualaikum Warahmatulllahi 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), lasin 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 agribussiness, 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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EFFECT OF DIFFERENT TYPES OF SOILS INFLUENCE WEED POPULATION AND GROWTH PERFORMANCE OF AEROBIC RICE (AERON 1)

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ABSTRACT

Rice (Oryza sativa L.) belongs to Poaceae family that being grown largely in Asian-Pacific region as a staple food. However, due to climatic and weather changes, water scarcity has made production of rice in large scale become more challenging. Hence, the introduction of aerobic introduced. lower water consumption was concern in the aerobic rice was weed infestation where it could reduce the yield production more than 50%. This is because weed will germinate concurrently with aerobic rice upon germination. Thus, this study was aimed to identify weed population and determine growth performance of AERON 1. The troughs experiment arranged in RCBD with 3 replications was conducted in glasshouse condition at UiTM Jasin, Melaka. Aerobic rice variety AERON 1 was cultivated in three different soil types consist of (clay, clay loam and peat soil). Results revealed the most predominant weed species was Leptochloa sinensis followed by Fimbristylis globulosa and Hedyotis corymbosa. Weed density and weed dry weight were recorded highest in clay soil collected from Serkam. Aeron 1 was performed as highest plant and produced highest number of tiller when cultivated in peat soil collected from Share Farm UiTM Jasin followed by clay soil collected at Serkam and clay loam collected from Sg Kesang.

Keywords: aerobic rice, types of soil, weed population, weed density