

Programme and Abstracts

PINAL 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 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 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 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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A REVIEW OF COCONUT VARIETIES IN MALAYSIA

Nur Aziatul Fazdlin Ab Rahman, Shamsiah Abdullah*

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

Corresponding Author: shamsiah3938@salam.uitm.edu.my

ABSTRACT

Cocos nucifera L, is one of the world's valuable crops, known as the 'tree of a thousand uses' since every part of the coconut tree can be processed into many products. Coconut is well distributed throughout the Asia including Malaysia and Indonesia. In Malaysia, coconut is considered important which ranked as the fourth important crop after oil palm, paddy and rubber. However for the past few years, the production of the coconut seems to be declined because of the competition with oil palm for acreage of cultivation area. A review on the varieties of coconut in Malaysia was carried out to provide source of references and information which can assist the selection of good coconut varieties for cultivation and breeding program. Generally, there are 16 varieties of coconut in Malaysia, classified into three main types; tall, dwarf and hybrid that are registered under Department of Agriculture in 2013, From the 16 varieties. MATAG hybrid is seen to be profitable to be cultivated because of the characteristics such as early bearing, semi dwarf tree and abundant fruits per bunch with large fruits size which can give high production to the farmers. Malayan Yellow Dwarf and Malayan Red Dwarf also have high potential for breeding program due to due to an early bearing that contribute to the high fruits production with the average of 25000-30000 fruits per hectare for every year compare to Malayan Tall which only produce 6000-8000 fruits per hectare for every year. Although the fruits is small in size. MYD and MRD have a great potential to be commercialized for young coconut water drink. Pandan variety is very synonym with the pandan aroma that become the added value to the selection of potential parent for breeding programme.

Keywords: Cocos nucifera L., coconut, MATAG, hybrid, Malayan Yellow Dwarf, Malayan Red Dwarf,

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