UNIVERSITI TEKNOLOGI MARA

Programme and Abstracts

PIMES

PLANTATION MANAGEMENT EXHIBITION & SEMINAR

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

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.

ANALYSIS OF MALAYSIAN NATURAL RUBBER PRICE THROUGH DEMAND AND SUPPLY

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ABSTRACT

Natural rubber is grown very nearly in Southeast Asia develop as commodities market in Malaysia. Natural rubber market were imbalanced on demand and supply, therefore its impact on natural rubber price. The aim of study is to determine the most affected factor of natural rubber price of SMR20 in the Malaysia, and to analyse mutual-relation of Malaysian natural rubber price SMR20 with domestic supply and demand. Therefore, the natural rubber determination model was built. The data provide in this study is secondary data. Time series data by using the monthly data from year 2016 to 2018. The data provided were gathered from Malaysian Rubber Board, Department of Statistics Malaysia, and Malaysian Rubber Board. It is uses natural rubber price SMR20 as dependent variable, natural rubber production and consumption, crude oil palm price as independent variable. This study test whether there have long-run equilibrium relationship between the price of natural rubber in Malaysia and a set of explanatory variable that influence it. The Augmented Dickey-Fuller (ADF) reveal that all the series are significant at first difference. The Johansen co-integration test show that the model were co-intregrating relationship. The vector error correction model (VECM) were conducted in this test. Findings show that at the long run, production have positive significance, while consumption and oil palm price have negative significance on price and a one-way casuality from consumption to price in short-term.

Keywords: VECM, SMR 20 price, Augmented Dickey-Fuller (ADF)