

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

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 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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USE OF NEEM AND GARLIC TO CONTROL SITOPHILUS ORYZAE ON STORED RICE GRAIN

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ABSTRACT

Orvza sativa is staple food that human needs to get energy and nutrient. However, Sitophilus oryzae is one of major pest that attack rice storage that cause huge economic lost in rice industry. Using a synthetic insecticide, biological control and Controlled Atmosphere Storage (CAM) is cause high cost to control Sitophilus orvzae. Use of plant extraction metabolites is an alternative to control this pest because the cost is cheaper and less harmless. This research was carried out to measure the effectiveness of neem (Azadirachta indica) and garlic (Allum sativum) powder extraction toward the mortality of insect and the mortality of Sitophilus or vzae against time. The method that used in this research is using 3 replicates that contains 100 grams of rice and the different treatment of powder which is T1 garlic 25 grams, T2 mixture of neem garlic powder 25 grams and T3 neem powder 25 grams. The 20 adults Sitophilus oryzae was introduced to each replicate and mortality data are taken 24 hours for 10 days consecutively. For the result, we can see that the three treatments can cause the mortality to rice weevil in 10 days but different level of effectiveness. The neem powder treatment is the highest effective of mortality Sitophilus ornaae followed by mixture neem garlic powder and garlic powder. It can be concluded that the plant metabolites can control the Sitophilus orvzae same as synthetic pesticide but different effectiveness.

Keyword: Sitophilus oryzae, Azadirachta indica, Allum saiiyum Oryza sativa, storage pest.