

For A Sustainable Agriculture & Environment

BIO-ORGANIC FERTILIZER PREPARATION USING EFFECTIVE MICROORGANISM TECHNOLOGY

26 - 27 June 2007 or

7 - 8 August 2007

CEPP Rumah Semarak, UTM *City Campus*, Kuala Lumpur

Introduction

The concept of effective microorganisms (EM) was developed by Professor Teruo Higa, University of the Ryukyus, Okinawa, Japan. EM consists of mixed cultures of beneficial and naturally-occurring microorganisms that can be applied as inoculants to increase the microbial diversity of soils and plant. Research has shown that the inoculation of EM cultures to the soil/plant ecosystem can improve soil quality, soil health, and the growth, yield, and quality of crops. EM contains selected species of microorganisms including predominant populations of lactic acid bacteria and yeasts and smaller numbers of photosynthetic bacteria, actinomycetes and other types of organisms. All of these are mutually compatible with one another and can coexist in liquid culture.

This concept also promotes the trend of organic farming to produce wholesome food. Approximately 2% of the U.S. food supply is grown using organic methods. In 2005, retail sales of organic food and beverages were approximately \$12.8 billion.

CEPP Bio-Organic Fertilizer SBU focuses on the application of EM on plant, soil, environment and animal. Bio-Organic Fertilizer SBU provides expertise in research and development in EM technology and utilizes the by-product from the agriculture industry.



Objectives :

- » Provide information on preparation and technical aspects to produce bio-organic fertilizer
- » Provide the latest information on Bio-organic fertilizer formulations
- » Hands-on practical training in formulating and preparation of bio-organic fertilizer
- » Provide information on Malaysian Standard (MS1784:2005) – Crop Commodities -Good Agricultural Practice (GAP)
- » Provide information on Malaysian Standard (MS1529:2005) – The Production, Processing, Labelling and Marketing of Plant – Based Organically Produced Foods.



Participants from FAMA
~18-19 April 2006~

Course Contents

- » Introduction to Effective Microorganism – Concept and Philosophy
- » Preparation of EMAS, EMFPE and EM Bokashi
- » Application of EM in Crop and Fruit
- » Application of EM in Animal Husbandary
- » Application of EM in Environment
- » Demonstration and Hands-on Session

Who should attend

- » **Individual involve in home gardening**
- » **Commercialized and small scale farmers**
- » **Foreign and local entrepreneurs**
- » **Scientist, Chemist and engineers involve in the fertilizer and agricultural industry**
- » **Government staff in agricultural sector**
- » **Environmental activist**

TUTORS

Prof. Dr. Mohamad Roji b. Sarmidi



Prof. Dr. Mohamad Roji is the Research and Development Manager of Chemical Engineering Pilot Plant, Universiti Teknologi Malaysia, Skudai, Johor. He graduated from University of Surrey, Guilford and holds a PhD degree from Aston University, Birmingham. His research interests include process intensification for environmentally sustainable processes and development of biorefinery for the production of phytochemicals. He also has strong interest in technology management and industrial development issues. He has carried out several consultancy projects in industrial development studies for State of Terengganu, Johor and Pahang.

Mr Aidee Kamal b. Khamis



Mr. Aidee Kamal is a Research Officer at Chemical Engineering Pilot Plant, Universiti Teknologi Malaysia. He graduated from Universiti Teknologi Malaysia and holds a Master degree in Chemical Engineering from Universiti Kebangsaan Malaysia. He is responsible for the development of Bio-Organic Fertilizer Business Unit at CEPP and successfully handled several industrial projects. He also specialised in Bio-Organic Fertilizer Formulation using by-product from agricultural industry, and has wide experienced in the fields of Effective Microorganism(EM) Application for plant, water, animal and environment.

SCHEDULE PROGRAMMES

Day 1 (0830 - 0500)

Introduction & Application of EM Technology
Preparation of EMAS, EMFPE and EM Bokashi
Practical Session (Part I)
- Hand-on Preparation of EMAS, EMFPE and EM Bokashi

Day 2 (0900 - 0500)

Application of EM Technology on Animal Husbandary
Application of EM Technology on Crop and Fruit
Application of EM Technology on Environment
Practical Session (Part II)
- Hand-on Application of EMAS, EMFPE and EM Bokashi

Staff from more than 300 companies have attended our life-long learning programmes.

CEPP has assisted more than 65 herbal companies in their process and product development.

***We can offer courses in-house**



Approved Training Provider

Qualified Companies are Entitled to **80%** and **50%** Discount Under Smidec - Skill Upgrading Programme for Enterprise & Sdn. Bhd. Entities Respectively

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In collaboration with



Approved Training Provider by the
Ministry of Human Resource (Reg. No 0451)

REPLY FORM

BIO-ORGANIC FERTILIZER PREPARATION USING EFFECTIVE MICROORGANISM TECHNOLOGY

Please tick (✓) where appropriate

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■ YES ! I would like to register the following participants

Name 1 _____

Job Title _____

Name 2 _____

Job Title _____

Name 3 _____

Job Title _____

COMPANY INFORMATION

Company _____

Address _____

Town _____

State _____

Tel _____ Fax _____

AUTHORISED Signatory (*This registration is invalid without signature form an authorised officer)

Name _____

Job Title _____

Tel _____ Fax _____

Course fee

Company/Individual

RM890.00 per participant

RM800.00 per participant for 2 or more for the same company

Government

RM650.00 per participant

(Fee is inclusive of lunch, refreshments and course materials.
Accommodation is not included)

Method of payment

Please kindly complete and return the reply form together with

By cheque / Bank draft which are made payable to

PHYTO BIZNET SDN. BHD. (CIMB Bank Berhad)

Cancellation & substitutions

A full refund will be promptly made for all written cancellations 2 weeks before the meeting. 50% refund will be made for written cancellations received 7 days before the meeting. A substitute may be made at any time.

Note

a)The organiser has the right to make any amendments that they deem to be in the best interest of the course and to cancel the course if insufficient registrations are received a week before course commencements date .

b) **CERTIFICATE OF ATTENDANCE** will be awarded at the end of the course.

For more information please contact us at :-

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