

REGISTRATION FORM

Full Name :
Institution :
Institution Address :
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Telephone Number:
Fax Number:
Email Address:

Please tick appropriate boxes [] below and if necessary, give extra details on a separate sheet of paper or in a covering letter

- [] Please reserve a place for me on this workshop
- [] I enclose a fee of RM1000.00
- [] Please invoice the following organisation which has agreed to pay the fee of RM1000.00
- [] I enclose a letter from my organization agreeing to pay the registration fee of RM1000.00. Kindly bill them.

[Fees are charged to cover food (lunch & teas), printed materials, teaching hours fee, insurance, and transportation to the field.]

(Dateline : 30th June 2006)

CORRESPONDENCE

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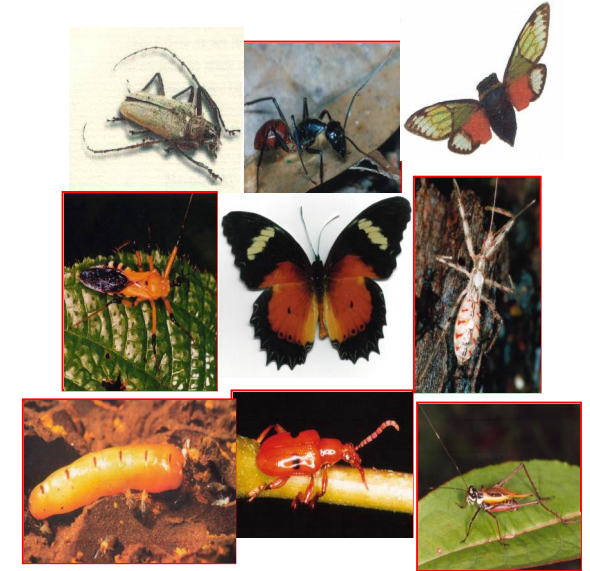
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WORKSHOP ON ENTOMOLOGY: INTRODUCTION TO ENTOMOLOGY



3rd - 11th July 2006

Institute for Tropical Biology and Conservation

Universiti Malaysia Sabah

WORKSHOP ON ENTOMOLOGY

BACKGROUND

This workshop will be organised by the Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah. This 9 days course is scheduled to be carried out from July 3rd - 11th 2006.

The workshop aims at introducing the importance of certain insect groups. These include lectures, collection, preservation, identification and curation techniques of insects. The workshop has been initiated to disseminate knowledge on insects to participants from various organizations in Malaysia such as agriculture forestry, plantations, public health and enforcement agencies such as quarantine, immigration and port authorities.

BACKGROUND OF THE INSECTS

Insects form the largest population of organisms (75%) in the animal world. There are approximately 750,000 described species of insect, comprises of about 30 different groups. They have evolved through time, from the most primitive forms (apterygotes) into the most advanced pterygotes (e.g. the bees and ants). The success of insects is evidenced by the tremendous number of species and individuals and by their ability to adapt to the environment. Although, they are essentially terrestrial animals and have occupied virtually every environmental niche on land, the insects have also invaded aquatic habitats except for the deeper waters of the ocean. This success of insects can be attributed to a number of factors, but certainly the evolution of flight endowed these animals with a distinct advantage over other terrestrial invertebrates.

Insects are distinguished from other Arthropods (joint legged animals) by having three pairs of legs and usually two pairs of wings. The head typically bears a single pair of antennae and a pair of compound eyes. A tracheal system provides for gaseous exchange.

Insects are of great ecological significance in the terrestrial environment. Two thirds of all flowering plants depend on insects for pollination. Insects are also of enormous importance for humans. Apart from agents of some diseases, insects also contribute to the well-being of mankind.

THE CONTENT OF THE WORKSHOP

- 2 Introduction to insects in general, their biology, diversity and importance.
- 3 Collection, preservation and identification techniques.
- 4 Consideration of some significant insect groups, e.g. - Lepidoptera (butterflies & moths), Hemiptera (cicadas), Odonata (dragon & damselflies), Isoptera (termites), Hymenoptera (ants, bees and wasps), Coleoptera (beetles), Diptera (flies), Orthoptera (hoppers, stick insects & crickets) and aquatic insects.

WORKSHOP SCHEDULE

Day 1	Introduction (survival and diversity) and the biology of insects (life cycle and importance) Introduction to Hymenoptera (Ants) and Hemiptera
Day 2	Introduction to Diptera; Orthoptera and Odonata
Day 3	Introduction to Lepidoptera; Coleoptera and Isoptera
Day 4	Introduction to other insects; collection and preservation methods
Day 5	Fieldwork
Day 6,7,8 & 9	Insect curation
Day 9	Closing Session (afternoon)