



***International Modelling Workshop Course on
"Ecosystem Modelling for Environmental Management 2009"
(ECOMODELLING 2009)***

**Penang, Malaysia
21st – 27th June 2009**

**Venue: Centre For Marine & Coastal Studies
Universiti Sains Malaysia
11800 Penang Malaysia**



**Registration Form
Short Course: Ecosystem Modelling (ECOMODELLING 2009)**

**Penang, Malaysia
21st – 27th June 2009**

Please register early by returning this form to:

Fax : 604 8852751 :Centre for Marine & Coastal Studies ,CEMACS

Or by posting to :

ECOMODELLING WORKSHOP 2009

**Attn.: Dr Khairun Yahya,
Centre for Marine & Coastal Studies (CEMACS)
Universiti Sains Malaysia
11800, Penang, MALAYSIA**

Email: khairun@usm.my

CEMACS website : <http://www.usm.my/cemacs/>

See attachments for more details of the course.

Title: _____ First Name: _____ Surname: _____

University: _____

Department: _____

Address (postal): _____

(delivery): _____

City: _____ State: _____ Country/Postcode: _____

Phone: _____ Fax: _____ Email: _____

Course Fee: USD \$ 1,000 or MYR3,500.00

The course is taught by an international team of lecturers and based at Centre for Marine & Coastal Studies, (CEMACS) Universiti Sains Malaysia, 11800 Penang Malaysia

The course fee does includes all course materials, handouts, modelling software, personal computer, accommodation, transportation from Penang International Airport to CEMACS, food, a BBQ at the beach, night market tour at Batu Ferringhi, beach games , nature exploration of Penang National Park either by boat or jungle tracking and a Certificate of Participation

Mode of Payment :

Cheque/bank draft/money order payable to : BENDAHARI UNIVERSITI SAINS MALAYSIA

Cheque/Cash on arrival /before registration

All form of payment should be addressed to : Dr Khairun Yahya, Centre for Marine & Coastal Studies, Universiti Sains Malaysia

The workshop fees include :

<i>Accommodation from 20/6/2009 - 28/6/2009</i>	<i>= USD200.00 (RM700.00)</i>
<i>Food (6meals/day)</i>	<i>= USD70.00 (RM245.00)</i>
<i>Transportation from Penang International Airport To CEMACS (Muka Head)</i>	<i>= USD50.00 (RM175.00)</i>
<i>Registration fee + softwares</i>	<i>= USD680.00(RM2380.00)</i>
<i>TOTAL</i>	<i>= USD1,000.00(RM3500.00)</i>

Early Bird registration before 1 May 2009:

<i>Early bird registration before 1 May 2009</i>	<i>US850.00 (RM2,800.00)</i>
<i>Normal registration after 1 June 2008</i>	<i>US1000.00 (RM3,500.00)</i>

Exchange rate: USD1 = MYR3.5/RM3.5

PROGRAM SCHEDULE:

International Modelling Workshop Course on
“Ecosystem Modelling for Environmental Management 2009”
(ECOMODELLING 2009)

Host and Organiser:

Dr Khairun Yahya
Director
Centre for Marine & Coastal Studies
Universiti Sains Malaysia

Presenters:

Prof Friedrich Recknagel, University of Adelaide, Australia, and
Prof Qiuwen Chen, Chinese Academy of Sciences, Beijing, China
Dr Anita Talib, Universiti Sains Malaysia, Penang, Malaysia

Program Schedule:

Sunday June 21, 2009

Arrival and informal meeting in the evening where course participants introduce themselves and explain their data and modelling concept

Monday June 22, 2009

9 - 10.30am: Ecosystems and ecosystem modelling

11 - 12 pm: Data acquisition and pre-processing for ecosystem modelling
differential equations, neural and evolutionary computation,
and cellular automata

2 - 3 pm: Statistical modelling by step-wise multiple nonlinear regression

3 - 5 pm: Practical on statistical modelling using EXCEL

Tuesday June 23, 2009

- 9 - 10.30am: Autonomous differential equation modelling
- 11 - 12 pm: Non-autonomous differential equation modelling
- 2 - 5 pm: Practical on differential equation modelling using STELLA and SALMO-OO

Wednesday June 24, 2009

- 9 - 10.30am: Computational modelling by artificial neural networks
- 11 - 12 pm: Computational modelling by evolutionary computation
- 2 - 5 pm: Practical on computational modelling by MATLAB and hybrid evolutionary algorithms HEA

Thursday June 25, 2009

- 9 - 10.30am: Spatio-temporal modelling by cellular automata
- 11 - 12 pm: Spatio-temporal modelling by cellular automata
- 2 - 5 pm: Practical on spatio-temporal modelling using cellular automata CA

Friday June 26, 2009

- 9 - 12pm: Working on individual modelling projects by course participants
- 2 - 5pm: Working on individual modelling projects by course participants

Saturday June 27, 2009

- 9 - 12 pm: Seminar presentation by course participants on their individual modelling projects
- 2 - 5 pm: Seminar presentation by course participants on their individual modelling projects
- 6 pm: final ceremony

MAIN ATTRACTIONS AT CEMACS, MUKA HEAD:

CENTRE FOR MARINE & COASTAL STUDIES (CEMACS) is located in Penang National Park. This park is currently known to be the small park in the world but rich in biodiversity. From Penang International Airport to CEMACS takes only 45 minutes by road. Upon arrival at the End of World (i.e. a jetty at Teluk Bahang fishing village), the participants will be taken to the marine centre by USM speed boat.

In the station, participants will simply enjoying the natural environment, which is a combination of the forest and sea. The participants will be living in a self contained flatlets and have the luxury to access the internet while relaxing either in the flatlet, or sitting at the garden or by the beach.

Some of the outdoor activities recommended include climbing, trekking, swimming and wildlife observation at your own free time.

Some of the activities that will be organized:

- ***BBQ at the beachfront and experiences the beauty of sunset***
- ***Interactive beach games between participants and CEMACS staff***
- ***Cultural show and local fruits fiesta (such as durian, rambutan, mangosteens, jack fruits, dukung)***

- **Night market tour at Batu Feringghi**
- **Jungle trekking to explore the beauty of Penang National Park**
- **Sunset cruise along the coastal water of Penang National Park(PNP). The Penang National Park located at the northwestern tip of Penang was gazetted as a national park in April 2003. It covers an approximately of 1,213ha of land and sea and comprises of 417 flora and 143 fauna species..**

Penang National Park was set up to preserve and protect flora and fauna as well as objects with geological, archaeological, historical, ethnological and other scientific and scenic interests. The park is unique as it contains several different types of habitat including a meromictic lake (a lake in which some water remains partly or wholly unmixed with the main water mass at circulation periods), wetlands, mangroves, mudflats, coral reefs and turtle nesting beaches.

- **Visit to Pantai Kerachut: Pantai Kerachut is the only beach where the Green Sea Turtle “Chelonia mydas” can be spotted. It is believed that the Green Turtle only migrates here for nesting. Another greastest attraction is the meromictic lake.**

For further information about the workshop please contact:

Organizing Coordinator:

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