

# SOILS 2009 PROGRAMME

## SUNDAY 12 April 2009

20.00-22.00 PRE-REGISTRATION AND POSTER PLACEMENT

## MONDAY 13 April 2009

08.00-09.00 REGISTRATION

### OPENING CEREMONY

08.45-09.00 Arrival of President of the Malaysian Society of Soil Science

09.05-09.10 Recitation of "Doa Selamat"

09.10-09.25 Welcoming address by the Chairman of the Conference Organizing Committee

09.25-09.35 Speech by the President of the Malaysian Society of Soil Science (MSSS)

09.35-09.50 Presentation of MSSS Education Awards

Presentation of Best Soil Science Student Award

09.50-10.30 VISIT EXHIBITION AND POSTER SESSION  
REFRESHMENT

### KEYNOTE PAPER

Chairman: Prof. Dr. Mohd. Khanif Yusuf (UPM)

10.30-11.15 The Role of Soil Microbes in Soil Health for Sustainable Agriculture Production

*Dr. Suhaimi Masduki*

MARDI

### SESSION 1 : Soil Biology and Plant Health

Chairman: Prof. Zulkifli Shamsuddin (UPM)

11.15-11.30 Insect Diversity: Their Impact on Enhancing Plant Health and Crop Production

*Mohd. Norowi, H and Ahmad S.S ,*

MARDI

11.30-11.45 Screening of Lignocellulose Degradation by Microbial Isolates from Rice Straw Compost under Laboratory Study

*Kang, S.H., Aida, Z., Siti, N.R., Kausar, M.H. and Halimi, M.S.*

UPM

11.45-12.00 Earthworm Population Dynamics under the Oil Palm Ecosystem on Alluvial and Sedentary Soils of United Plantations Berhad

*Vijiandran, J. R. and Gurmit, S.*

United Plantation, Berhad

12.00-12.15 Discussion

12.15-14.15 MSSS ANNUAL GENERAL MEETING AND LUNCH

## **FELLOW MSSS PAPER 1**

**Chairman: Prof. Dr. Mohamed Hanafi Musa (UPM)**

14.15-14.45 Soil Health and Carbon Sequestration: The Beginning of Carbon Footprint in Products  
*Dr. Chan Kok Weng*  
MPOB

## **SESSION 2: Soil Fertility**

**Chairman: Prof. Zin Zawawi Zakaria (UNIMAS)**

14.45-15.00 Performance of Nitro Humic Acid (NHA) Based Paddy Grain Booster  
*Muhammad Syahren, A., Chan, C.S. and Wong, N.C.*  
MARDI

15.00-15.15 Effects of Composts with Different Organic Matter on Soil Phosphorus and Potassium  
*Faridah M., Aini, Z and Zulkefli, M.*  
MARDI

15.15-15.30 Root Characteristics and Nutrient Concentrations in Rice (*Oryza sativa* L.) Grown under Different Salinity Conditions  
*Momayezi, M.R., Zaharah, A.R., Hanafi, M.M. and Mohd. Razi, I.*  
UPM

15.30-15.45 Discussion

15.45-16.15 **REFRESHMENT**

## **SESSION 3: Soil Chemistry**

**Chairman: Assoc. Prof. Dr. Datin Rosenani Abu Bakar (UPM)**

16.15-16.30 Alleviation of Aluminum in Acidic Soils and its Effect on Growth of Hybrid and Clonal Oil Palm (*Elaeis Guineensis*, Jacq) Seedlings  
*Cristancho, R.J.A, Hanafi, M.M., Syed Rastan, S.M., Mohd Rafli, Y. Martinez, F.M. and Campos, C.C.E.*  
UPM

16.30-16.45 Comparative Tolerance of Corn and Groundnut Grown on Ultisols to Soil Acidity  
*Shamshuddin, J. and Cek Fauziah, I*  
UPM

16.45-17.00 Spatial Variability of Selected Chemical Characteristics of Paddy Soils in Selangor and Kedah  
*Aisyah, A.W., Zauyah, D., Anuar, A.R., Fauziah, C.I., Farzli, M., Azrul, M. and Sabrie, M.*  
UPM

17.00-17.15 Adsorption of Formulated Chlorpyrifos on Selected Agricultural Soils of Terengganu  
*Tay Joo Hoi, Marinah Mohd Ariffin and Norhayati Mohd Tahir*  
UMT

17.15-17.30 Discussion

**SESSION 4 : Soil Microbiology****Chairman: Dr. Suhaimi Madsuki (MARDI)**

- 09.30-09.45 Effect of Root Exudates Carbon Compounds on Biological Nitrogen Fixation in rice  
*Umme Aminun Naher, Radziah, O., Zulkifli, S., Halimi Mohd, S. and Mohd Razi, I.*  
UPM
- 09.45-10.00 Isolation, Characterization and Identification of Endophytic Bacteria in Safed Musli (*chlorophytum borivillianum*) Roots  
*Hayati, N.A., Aminatulhawa, P.M. and Shamsuddin, Z.H.*  
UPM
- 10.00-10.15 Solubilization of Inorganic Phosphates by Phosphate-Solubilizing Bacteria Isolated from Aerobic Rice  
*Panhwar, Q.A., RAdziah, O., Sariah, M. and Mohd Razi, I.*  
UPM
- 10.15-10.30 Discussion
- 10.30-11.00 **REFRESHMENT**

**SESSION 5: Soil Waste Management and Environment****Chairman: Dr. Wan Rasidah Kadir (FRIM)**

- 11.00-11.15 Cadmium and Zinc Concentrations in the Oil Palm Soil System  
*Aini Azura, A , Cek Fauziah, I. and Samsuri, A.W.*  
UPM
- 11.15-11.30 Potential of peat as a natural adsorbent in the removal of Cu, Fe, Mn and Mg from hydroponic waste  
Liza Nuriati Lim Kim Choo,  
MARDI
- 11.30-11.45 Carbon Sequestration in Coastal Soils under Different Land Use  
*Normah Awang Besar @ Raffie, Christian Knoblauch and Eva-Maria Pfeiffer*  
UMS
- 11.45-12.00 Discussion

**SESSION 6 : Soil Physics****Chairman: Assoc. Prof. Dr. Jamal Talib (UPM)**

- 12.00-12.15 Physical Changes to Oil Palm Empty Fruit Bunches (EFB) and EFB Mat (Ecomat) During their Decomposition in the Field  
*Teh, C.B.S., Goh, K.J. and Kamarudin, K.N.*  
UPM
- 12.15-12.30 Soil Moisture Pattern in Tropical Lowland Forest  
*Marryanna, L., Abdul Rahman, K, Siti Aisyah, S and Saiful Iskandar, K.*  
FRIM
- 12.30-12.45 Discussion

12.45-14.00	<b>LUNCH</b>
	<b>FELLOW MSSS PAPER 2</b> <b>Chairman: Dr. Muhammed Radzali Mispan (MARDI)</b>
14.00-14.30	After Three Generations of Oil Palm Planting: Is there a Need for Sulphur and Micronutrient Fertilizers? <i>Prof. Dr. Zin Zawawi Zakaria</i> UNIMAS
	<b>SESSION 7 : Fertiliser management</b> <b>Chairman: Dr. Chan Kok Weng (MPOB)</b>
14.30-14.45	Effects of Mixing Urea with Acid Sulphate Soil and Humic Acid on Ammonia Loss, Exchangeable Ammonium and Available Nitrate <i>Mohd Taufik, M.Y., Ahmed, O.H. and Nik Muhamad, A.M.</i> UPM, Bintulu
14.45-15.00	Rice Farming and Fertilizer Management Practices: The Complexities <i>Suhaimi, O., Emmyrafedziawati, A.R., Nor Fadilah, A.H. and Mohd Rodzi, S.</i> MARDI
15.00-15.15	Discussion
	<b>SESSION 8: Pedometric</b> <b>Chairman: Mr. Goh Kah Joo (AAR)</b>
15.15-15.30	Statistical Index as a Rapid Method to Landslide Risk Zonation in the Catchment Scale (Case Study: Jahan Watershed in The Northeast of Iran) <i>Memarian, H., Jamal, T and Safdari, A.</i> UPM
15.30-15.45	Applicability of Hydrus _2D Model for Flow from Point Sources of Drip Irrigation <i>Ekhmaj, A.I., M.S.M. Amin, S. Salim, and A.A. Zakaria</i> UPM
15.45-16.00	Spatial Variability of Soil Organic Carbon in Oil Palm <i>Law, M.C., S.K. Balasundram, M.H.A. Husni, O.H. Ahmed and M.H. Haniff</i> UPM
16.10-16.15	Discussion
16.15-17.00	<b>CLOSING OF CONFERENCE BY MSSS PRESIDENT</b>
17.00	<b>REFRESHMENTS</b>

08.30-14.00

**POST CONFERENCE TOUR**

The post conference tour will be held at Setiu District, Terengganu Darul Imam. The location of the post conference tour is about 40km from Primula Beach Resort.

- Beach Ridges Interspersed with Swales (BRIS) soil
- Soil Correlation of BRIS soil.

**Visit to Pitaya Plantation.**

- Liza Pitaya Plantation is one of the Taman Kekal Pertanian Makanan (TKPM) project under DOA authority.