

**INTERNATIONAL CONFERENCE ON BALANCED NUTRIENT MANAGEMENT FOR
TROPICAL AGRICULTURE**

**12-16 APRIL 2010
SWISS GARDEN RESORT & SPA,
KUANTAN, PAHANG
MALAYSIA**

PROGRAMME

MONDAY 12 APRIL 2010: OPENING SESSION	
08.00 – 09.00 am	- REGISTRATION
09.00 – 09.30 am	- Opening Ceremony <ul style="list-style-type: none"> • Welcoming Address by Chairman of Organising Committee (Prof. Dr. Mohamed Hanafi Musa) • Welcoming Address by Dean, Faculty of Agriculture, UPM (Prof. Dr. Mad Nasir Shamsuddin) • Welcoming and Opening Address by the Secretary general, IMPHOS (Mr. Tayeb MRABET)
09.30 – 10.00 am	- Plenary Paper 1: Reconciling Fertilizers and Human Demands in the 21st Century in Asia: Phosphate Case Mr. J. Poulisse , FAO (Retired) and IMPHOS Scientific Advisory Committee
10.00 – 10.30 am	- Presentation of MSSS Awards <ul style="list-style-type: none"> • MSSS award for school pupils • MSSS Certificate of Appreciation for Best Final Year Project at UPM
10.30 - 11.00 am	- REFRESHMENT
SESSION 1 – Phosphorus Nutrition 1 Chairman: Prof. Dr. Mohd Khanif Yusof Department of Land Management, UPM	
11.00 – 11.30 am	- Keynote Address 1: Efficiency of phosphate fertilizer use – implications for sustainable nutrient management Prof. Dr. J.K Syers , Naresuan University, Phitsanulok, Thailand
11.30 – 11.45 am	- Paper 1 : Response of oil palm to phosphorus fertilizer application on marine alluvial soils Dr A. Xavier , United Plantations
11.45 – 12.00 noon	- Paper 2: Phosphorus nutrition management of oil palms in Indonesia using various sources of phosphates Mr. J.P. Caliman , Sumatera, Indonesia
12.00 – 12.15 pm	- Paper 3: Effect of reactive phosphate rock and NKMg fertilizer Placement on Oil Palm Performance on an Inland Soil Mr. Lee Chin Tui , FELDA Agriculture Services
12.15 – 12.30 pm	- Q & A Session
12.30 - 14.30 pm	- LUNCH AND AFTERNOON BREAK

SESSION 2 – Phosphorus Nutrition 2 Chairman: Dr. L. Cisse The World Phosphate Institute (IMPHOS) Casablanca, Morocco	
14.30 – 15.00 pm	- Keynote Address 2: Managing Phosphorus in Acid Soils Prof. Dr. Mohamed Hanafi Musa , Institute of Tropical Agriculture, UPM
15.00 – 15.15 pm	- Paper 4: Role of IMPHOS in Promoting Balanced and Efficient Use of Fertilizers in India Dr. Gautam Dev , Kitchlu Nagar, Ludhiana, Punjab, India and A.NASSIR,IMPHOS
15.15 – 15.30 pm	- Paper 5: Site-specific Nutrient Management for Profitable and Sustainable Crop Production in the Tropics Dr. H. Singh , Deputy Director, International Plant Nutrition Institute, Pune, Maharashtra, India.
15.30 – 15.45 pm	- Paper 6: Characterization of Soil Phosphorus in an Oil Palm (<i>Elaeis guineensis</i> Jacq.) Plantation after Long Term Application with Different Phosphate Fertilizer Sources and their Relationships to Fresh Fruit Bunch Yield Mr. Liew. Y.A. , Department of Land Management, UPM
15.45 – 16.00 pm	- Paper 7: Different Sources Of Phosphate Rock For <i>Mucuna bracteata</i> Establishment and Its Subsequent Effect On Growth and Oil Palm Yield Mr. Sharuddin Bakar , Sime Darby Research
16.00 – 16.20 pm	Q and A Session
16.20 – 16.50 pm	REFRESHMENT
16.50 – 17.05 pm	- Paper 8: The use of phosphate rocks for growing <i>Mucuna bracteata</i> in oil palm legume systems to enhance sustainability (Patrick Ng et al.) Mr. Patrick Ng, H.C. , Advanced Agriecological Research Sdn. Bhd
17.05 – 17.20 pm	- Paper 9: Root Phosphatase Activity as a Measure to Screen Upland Rice Genotypes for Phosphorus Use Efficiency Prof. Dr. Zaharah, A.R. , Department of Land Management, UPM.
17.20 – 17.35 pm	- Paper 10: Direct Application of Different Sources of Phosphate Rock on Rice Production in Bangladesh Dr. A. Haque , Bangladesh
17.35 – 17.50 pm	- Q & A Session
17.50 pm	- END OF SESSION
20.00 – 23.00 pm : DINNER AND CULTURAL SHOW (SPONSORED BY IMPHOS)	

TUESDAY 13 APRIL 2010 SESSION 3 – Macronutrients Chairman: Prof. Dr. Mohamed Hanafi Musa Deputy Director, Institute of Tropical Agriculture, UPM	
09.00 – 09.45 am	- Plenary Paper 2: Balanced Nutrient Management and Nutrient Cycling for Sustainable Oil Palm Production in Malaysia Dr. Khalid Haron , Malaysian Palm Oil Board (MPOB)
09.45 – 10.15 am	- Keynote 3: Nutrient Management in Indian Agriculture: Issues and Strategies Dr. R.K. Tewatia , The Fertiliser Association of India
10.15 – 10.45 am	- REFRESHMENT
10.45 – 11.00 am	- Paper 11: Managing Soil Acidity for Sustainable and Balanced Nutrition of Oil Palm (<i>Elaeis guineensis</i> , Jacq) J. A. C. Rodriguez , Institute of Tropical Agriculture, UPM
11.00 – 11.15 am	- Paper 12: Balanced Macronutrients (N-P-K) in Farming Systems of Thua Thein Hue Province, Vietnam at Single Field Plot and Whole Farm Levels HOA, H.T.T. , Hue University of Agriculture and Forestry, Hue City, Vietnam.
11.15 – 11.25 am	- Q & A Session
11.25 – 13.00 pm	- POSTER SESSION / MSSS ANNUAL GENERAL MEETING
13.00 – 14.30 pm	- LUNCH AND AFTERNOON BREAK
SESSION 4 – Micronutrients Chairman: Prof. Dr. Shamsudin Jusop Department of Land Management, UPM	
14.30 – 15.00 pm	- Keynote 4: Fertilizer Management for Improving Paddy Rice Soil Productivity in Indonesia: Integrated Plant Nutrient Management System Dr.Husnain , Indonesian Soil Research Institute, Bogor, Indonesia
15.00 – 15.45 pm	- Paper 13: MSSS Fellow Inaugural Paper: Agriculture and Rural Development in The National Physical Plan for Peninsular Malaysia Dr. Shariffuddin Abdul Hamid , BODEM Consult
15.45 – 16.00 pm	- Paper 14: Balanced Fertilizer Application to Cassava by Site Specific Nutrient Management Approach for Enhanced Yield, Income and

16.00 – 16.15 pm	<p>Nutrient Use Efficiency G. Byju, Central Tuber Crops Research Institute, Kerala, India</p> <ul style="list-style-type: none"> - Paper 15: Optimizing Grain Filling and Nitrogen-use Efficiency of Irrigated Rice (<i>Oryza sativa</i> L.) Through Timely Nitrogen Management During Critical Growth Stages A. Bah, Department of Land Management, UPM
16.15 – 16.30 pm	Q & A Session
16.30 – 17.00 pm	REFRESHMENT
17.00 - 17.15 pm	<ul style="list-style-type: none"> - Paper 16: Effect of Calcium Silicate on the Productivity and Silicon Accumulation in Sugarcane Plant S.M.Bokhtiar, Bangladesh Sugarcane Research Institute, Pabna, Bangladesh
17.15 – 17.30 pm	<ul style="list-style-type: none"> - Paper 17: Possibility of Direct Use of Phosphate Rock for Improvement of Crop Production in Vietnam Quang Vo Dinh, National Center for Technological Progress in Hochiminh city- (NACENTECH), Vietnam
17.30 – 17.45 pm	<ul style="list-style-type: none"> - Paper 18: Farm management practices for mitigation of Carbon emission in peatland agrosystems - Mr. Ismail Bakar, Malaysian Agriculture Research and Development Institute (MARDI)
17.45 – 18.00 pm	<ul style="list-style-type: none"> - Q and A Session END OF SESSION
WEDNESDAY 14 APRIL 2010	
SESSION 5 – Miscellaneous Chairman: Assoc. Prof. Dr. Che Fauziah Ishak Department of Land Management, UPM	
09.00 – 09.30 am	<ul style="list-style-type: none"> - Keynote 5: IMPHOS/NFDC Experience on Balanced Fertilization at Farm Level in Pakistan Dr. A. Nisar, (retired) Chief/ Project Director NFDC, Islamabad, Pakistan
09.30 – 09.45 am	<p>Paper 19: Fertilizer Use Technology Transfer to Farms : IMPHOS experiences A. Nassir, The World Phosphate Institute (IMPHOS), Casablanca, Morocco</p>
09.45 – 10.00 am	<ul style="list-style-type: none"> - Paper 20: Production and Nutrient Uptake Improvement of Sweet Corn by Rock Phosphate Combined with Manure and Mycorrhiza Inoculation Dr. D. R. Lukiwati, Faculty of Animal Agriculture, Diponegoro University,

	<p>Campus UNDIP Tembalang, Semarang-Central Java, Indonesia</p>
10.00 – 10.15 am	<ul style="list-style-type: none"> - Paper 21: Selection and Categorization of Phosphorus Solubilizing Bacteria from Aerobic Rice Mr. Q. A. Panhwar, Department of Land Management, UPM.
10.15 – 10.30 am	<ul style="list-style-type: none"> - Q & A Session
10.30 – 11.00 am	<ul style="list-style-type: none"> - REFRESHMENT
11.00 – 11.15 am	<ul style="list-style-type: none"> - Paper 22: Sustaining the Productivity of a Poor Tropical Soil Using Natural Silicates Miss M.A.R Siti Shazana, Department of Land Management, UPM
11.15 - 11.30 am	<ul style="list-style-type: none"> - Paper 23: Effects of Foliar Applied Copper and Boron on Yield and Lignification of Rice Plant Mr. Y.A. Liew, Department of Land Management, UPM.
11.30 – 11.45 am	<ul style="list-style-type: none"> - Paper 24: Towards Efficient Use of Volatilize Nitrogen Fertilizers Dr. O. H. Ahmed, Universiti Putra Malaysia Bintulu Campus, Sarawak, Malaysia
11.45 - 12.00 noon	<ul style="list-style-type: none"> - Paper 25: A Unified Classification System for Organic Soils of Malaysia Mr. Lah Jau Uyo, Soils Management Branch, Department of Agriculture, Sarawak
12.00 – 12.15 pm	<ul style="list-style-type: none"> - Paper 26: Increased Seed Germination, Growth and N₂ Fixation in Rice through Rhizobial Inoculation Dr. M.A. Baset Mia, Department of Land Management, UPM
12.15 – 12.40 pm	<p>Q and A Session</p>
<p>12.45 pm : CLOSING CEREMONY By President, Malaysian Soil Science Society</p>	

POSTERS:

1. Screening of Rice Genotypes for Zinc Uptake Efficiency (Hafeez Babar et al)
2. Nutrient Management for Sugarcane Production in the Areas of Red Soil (Hongwei Tan et. al)
3. Soil Phosphorus Status and Crop Response in Different Cropping Systems in Red Soil Area of Southern China (Hongwei Tan et al)
4. Evaluating Phosphate Uptake Kinetics in Upland Rice Seedlings Using P-32 Radioisotope Technique (Tan, N.P et al)
5. Effects of Rice Hull Application on Rice Growth and Yield (Ismail Haron, MARDI, Malaysia)
6. Effects of Silica Micro Suspension (SILYSOL MS) on Transplanted Rice by Seedling Box Application (Hasui, H and Sung Do Song)
7. Efficiency of Nitrogenous Fertilizer on *Hevea brasiliensis* (RRIM2000) (Shafar & Wan Noordin)
8. Tropical Peat Soils of Sarawak (Lah, J.U and Ngap Dolah)
9. A Simple Net Rainfall Modal and Soil Water Content Under Pine (*Pinus Carribea*) Canopies (Chong S.Y and Christopher Teh)
10. Fertilizer Application Method and Potassium Leaching in Bris Soil (Ahmad Husni, Fauzi and Samsuri)
11. Development of An Improved Oil Palm Growth and Yield Model: Preliminary Report (Iba, J et al.)
12. Physico-chemical Properties of *Orthosiphon stamineus* (Benin) Under Rubber Using Various Organic Fertilizers (Affendi, H et al.)
13. Effects of Different Soil Conservation Practices on Soil Fertility (Abolfath Moradidalini, Christopher The Boon Sung , Ahmad Husni Mohd Hanif , Che Fauziah, Ishak and Goh, Kah Joo)
14. Amelioration of Selected Chemical Properties of Acidic Soil by Addition of Potassium Humate (Amjad. A, Khanif. Y. M, Aminuddin H, Radiah, O and Osumanu. H. Ahmed)
15. Evaluation of Borax and Colemanite as Boron Sources for Rice Grown in Flooded Calcareous Soil (Saleem.M., Khanif.Y.M., Che Fauziah, I., Samsuri A.W., and Hafeez. B)
16. The Efficacy of a Ca Formulation (CAMOB) for Treatment of Tomato Blossom End Rot (BER) (Muhammad Syahren A., Wong N.C and Mahamud S.)

17. The Effects of Liquid Fertilizer (MIRACLE SWEET 35) on Growth and Yield of Sweet Potato (Muhammad Jusuf, Sung Do Song and Hidaeki Hasui)
18. Effects of Sap Characteristics on Crop Performance as Affected by Nitrogen Levels (Wira, A.B., Abd Jamil, Z. and Armizatul S.A.H.)
19. Variations in Plant Nutrient Contents of Vermicompost from Native and Exotic Earthworms Fed with Rice Straw. (Yan, Y.W et al.)
20. Effects of Nitrogen Fertilizer on N Fixation of *Rhizobium sp.* in Rice System (Ayunie et al.)
21. Empirical Equations to Show the Relationship Between Planting Density and Leaf Area Index, Total Dry Matter and Grain Yield of Maize (Mokhtarpour, H. et al)
22. Pores Reconfiguration in Compacted Bernam Series Soil (Zuraidah et al)
23. Critical Sulfur and Micronutrient Concentrations in Frond and Soils of Oil Palm Plantations Located in Coastal and Inland Areas (Aini, A. A, Fauziah, C. I and Samsuri, A. W)
24. Evaluating N Uptake Performance of Different Oil Palm Genotypes Using N-15 Isotope Technique (Law, C.C., Zaharah, A.R., Husni, M.H.A., and Siti Nor Akmar, A)
25. Yield and Growth Performance of Chinese Spinach (*Amaranthus sp.*) and Lettuce (*Lactuca sativa*) Grown on a Clay Soil to Varying Rates of Poultry Manure (Lim A.H.)