ASPFA 2005

"Advances in Soil, Plant and Fertilizer Analysis Seminar 2005"

3-5 August 2005
ParkCity Everly Hotel
Miri, Sarawak

Modernization of Agriculture Through Good Laboratory Practices (GLP)

Jointly organized by



Committee on Standardization of Soil, Plant and Fertilizer Analysis

Department of Agriculture Sarawak



ASPFA 2005

ADVANCES IN SOIL, PLANT AND FERTILIZER ANALYSIS 3rd-5th August 2005

Venue: Tinjar Room, ParkCity Everly Hotel

SEMINAR PROGRAMME

Wednesday, 3 rd	August 200	15 In the X termines Author MS wered
08.00 - 09.00) a.m.	Registration of participants
09.00 - 10.00) a.m.	Keynote address by Dr. S.Paramananthan Soils of Sarawak and the use of Chemical Analysis in Soil Interpretation
10.00 - 10.45	ā.m.	Kudapan
10.45 - 11.00	a.m.	Arrival of invited guests
11.00 - 11.15	5 a.m.	Arrival of Yang Berhormat Tan Sri Datuk Amar Dr. George Chan Hong Nam, Sarawak Deputy Chief Minister (1) cum Minister of Modernization of Agriculture and Minister of Industrial Development
11.15 - 11.30) a.m.	Welcoming address by Chairman, Organizing Committee
11.30 - 11.45	a.m.	Speech by Datuk Haji Mohd Sepuan Haji Anu, Director of Agriculture Sarawak
11.45 - 12.15	5 noon	Opening speech by Yang Berhormat Tan Sri Datuk Amar Dr. George Chan Hong Nam, Sarawak Deputy Chief Minister (1) cum Minister of Modernization of Agriculture and Minister of Industrial Development
12.15 - 12.30	p.m.	Exhibition tour/press conference

12.30

02.00

p.m.

Merarau

SESSION 1 CROP PRODUCTION AND SOIL SUITABILITY

Chairman:	Dr. Aminudo	lin Hussin – Universiti Putra Malaysia
02.00 - 02	2.20 p.m.	Paper 1
		Utilization of Peat for Food Production En. Jaman Haji Osman, Department of Agriculture Sarawak
02.20 - 02	2.40 p.m.	Paper 2
		Geostatistical Analysis of Selected Chemical Properties in a Cultivated Tropical Peat Dr. Siva K. Balasundram, Universiti Putra Malaysia
02.40 - 03	8.00 p.m.	Paper 3
		A Computer Programme to Determine the Soil Texture Class for Any Classification Scheme Dr. Christopher Teh, Universiti Putra Malaysia
03.00 - 03	3.20 p.m.	Paper 4
		Improving Soil Applied Urea Use Efficiency Via Mixing Zeolite, Triple Super phosphate and Urea Mixture Ahmed O.H., Universiti Putra Malaysia
03.20 - 03	3.40 p.m.	Paper 5
		The Results of Nutrient Analysis of EFB-POME Compost: Golden Hope's Experiences U.T.Pupathy, Golden Hope Research Sdn. Bhd.
03.40 - 04	1.00 p.m.	Discussion magazina m.s. 00.01 m.s. 00.01
04.00 - 04	1.20 p.m.	Kudapan
04.20 -	p.m.	End of first day
08.00 -	p.m.	Official dinner

A COMPUTER PROGRAM TO DETERMINE THE SOIL TEXTURE CLASS FOR ANY CLASSIFICATION SCHEME

Dr. Christopher Teh
Department of Land Management
Universiti Putra Malaysia,

ABSTRACT

Texture Autolookup (TAL) is an object-oriented C++ computer program developed to lookup soil texture classes based on any soil classification scheme. TAL describes each soil texture class in a given scheme as a polygon located in a biaxial (x, y) or (%sand, %clay) coordinate system. The principle to determine the texture class is to determine if, in the texture chart, the point of intersection between any two primary particles lies within a texture class polygon. The polygon inside test method is used to test if a point lies inside or outside a polygon. TAL also supports Range Lookup which is the lookup of the range of soil texture classes based on a given range of particle size distributions. The texture class is determined by testing if the source polygon enclosing the given range of particle size distributions could clip the target polygon of a particular texture class. A successful clipping between these two polygons indicates that the target texture class belongs within the given range of particle size distributions. The polygon clipping method used is the algorithm adapted from Vatti's algorithm (1). TAL is supported by a graphical user interface program and has been developed for the intended use for everyone including non-programmers.