

Oral Programme SS2

Contributions of soil mineralogy to solve agricultural, environmental, technological and other practical problems

Conveners: Jock Churchman, Elisabetta Barberis

Tuesday 16 June, 2009

Chair: Jock Churchman

- 11.00 – 11.30 SS2a.Tue.KL1
Robert Fitzpatrick, Mark D Raven, Paul Shand*
SOIL MINERALS IN THE ENVIRONMENT, INDUSTRY AND THE JUSTICE SYSTEM
- 11.30 – 11.50 SS2a.Tue.L2
Mark D Raven, Robert W Fitzpatrick*
IMPORTANCE OF CLAY MINERALOGY IN THE FORENSIC COMPARISON OF SOILS
- 11.50 – 12.10 SS2a.Tue.L3
R. Jahn, I. Janßen, R. Horn*
RHEOLOGICAL INVESTIGATION OF PADDY SOILS WITH MIXED MINERALOGY
- 12.10 – 12.30 SS2a.Tue.L4
*Katrin M. Tiefenbach, Franz Ottner**
CLAY MINERALS AND THEIR INFLUENCE ON MASS MOVEMENTS
- 12.30 – 12.50 SS2a.Tue.L5
Edna Patricia P Mendoza, Sandra G. Catane, Chelo S. Pascua, Mark Albert H. Zarco*
SUITABILITY OF VOLCANIC SOILS AND SEDIMENTS IN METRO MANILA, PHILIPPINES FOR LANDFILL LINER MATERIAL

LUNCH 12.50-14.20

Tuesday 16 June, 2009

Chair: Elisabetta Barberis

- 14.30 – 15.00 SS2b.Tue.L1
Fabien Hubert, Laurent Caner, Alain Meunier*
IDENTIFICATION AND QUANTIFICATION OF SOIL REACTIVE CLAYS MINERALS BY DIRECT XRD PROFILE FITTING
- 15.00 – 15.20 SS2b.Tue.L2
Baiq Emelda Yusiharni, Bob Gilkes*
REHYDROXYLATION OF HEATED GIBBSITE, KAOLINITE AND GOETHITE: AN ASSESSMENT OF PROPERTIES AND ENVIRONMENTAL SIGNIFICANCE
- 15.20 – 15.40 SS2b.Tue.L3
Puvvadi V Sivapullaiah, Gullapalli Sankara*
GEOTECHNICAL BEHAVIOUR OF SOIL WITH AN INTERSTRATIFIED MINERAL
- 15.40 – 16.00 SS2b.Tue.L4
*Sofia Lessovaia**
SHALLOW SOILS FROM BASIC AND ULTRABASIC ROCKS, RUSSIA: MINERAL COMPOSITION AND CHEMICAL PROPERTIES
- 16.00 – 16.20 SS2b.Tue.L5
Wanpen Wiriyakitnateekul, Claude Hammecker, Somchai Anusontpornperm, Suddha Boonrod*
CLAY MINERALOGY OF SOILS DERIVED FROM SANDSTONE ALONG A TOPOSEQUENCE IN NORTHEAST, THAILAND

Wednesday 17 June, 2009

Chairs: Elisabetta Barberis & Jock Churchman

- 08.50 – 09.20 SS2c.Wed.L1
~~*Georgina Holbeche*, Robert Gilkes, Richard George*~~
~~AUTHIGENIC PLYGORSKITE IN VALLEY FLOOR SOILS IN WESTERN AUSTRALIA~~
- 09.20 – 09.40 SS2c.Wed.L2
Wen Feng Tan, Dong Liu, Li Huang, Fan Liu*
COMPOSITION OF CLAY MINERALS IN AGGREGATES AND THEIR EFFECT ON AGGREGATE STABILITY IN RED SOILS UNDER DIFFERENT EROSION FROM CHINA

- 09.40 – 10.00 SS2c.Wed.L3
*Myriam Duc**, *Lamis Makki*, *Aur lie Maloula*, *Jean-Pierre Magnan*
 ROLE OF CARBONATE ON SWELLING/SHRINKAGE OF CLAYEY SOILS
- 10.00 – 10.20 SS2c.Wed.L4
*Daniela De Benedetto**, *Annamaria Castrignano*
 SPATIAL RELATIONSHIP BETWEEN CLAY CONTENT AND GEOPHYSICAL DATA
- 10.20 – 10.40 SS2c.Wed.L5
*Niousha Mehraban Rad**
 INVESTIGATION OF PHYSICAL, CHEMICAL AND MINERALOGICAL STUDIES OF TRANSPORTED SEDIMENTS IN SEFID-ROOD DAM

COFFEE BREAK 10.40-11.00

Wednesday 17 June,, 2009

Chairs: Elisabetta Barberis & Robert Fitzpatrick

- 11.00 – 11.30 SS2d.Wed.L1
*Pietro Iavazzo**, *Paola Adamo*, *Maria Boni*, *Stephen Hillier*, *Mariavittoria Zampella*
 MINERALOGICAL FORMS OF Pb AND Zn IN SOIL SAMPLES FROM A FORMER Pb MINING AREA IN MOROCCO AND INFERENCES FOR SPECIATION
- 11.30 – 11.50 SS2d.Wed.L2
Soheila Sadaat Hashemi, *Majed Baghernejad**, *Hakime Abaslou*
 ADSORPTION BEHAVIOR OF ZINC ON CLAY MINERALS AND ITS VARIABILITY IN DIFFERENT SOIL
- 11.50 – 12.10 SS2d.Wed.L3
~~*Matthew Landers**, *Robert Gilkes*, *Markus Grafe*, *Martin Wells*~~
~~LOCATION OF NICKEL IN RAPIDLY DEHYDROXYLATED GOETHITE IN OXIDE-TYPE NI-LATERITE ORES: EXAFS AND XANES INVESTIGATION~~
- 12.10 – 12.30 SS2d.Wed.L4
*Suphicha Thanachit**, *Somchai Anusontpornperm*, *Wanpen Wiriyakitnateekul*, *Irbkheoruenromne*, *Anchalee Suddhiprakarn*
 MINERALOGICAL IMPLICATION FOR AGRICULTURAL USES OF SOILS DEVELOPED ON CALCITE BEARING ROCKS
- 12.30 – 12.50 SS2d.Wed.L5
Melissa Fraser, *Jock Churchman**
 VARIABILITY OF CLAY MINERALOGY IN A VERTISOL IN A FLAT CALCAREOUS LANDSCAPE AND ITS EFFECT ON PASTURES

Poster Programme SS2

Posting Time: Monday 15 June, 20.30-22.30; **Removal:** Wednesday 17 June, 12.50-14.30;

Attendance Time: Tuesday, 16 June, 18:30–20:00

Chairs: Jock Churchman & Robert Fitzpatrick

- SS2.Tue.P1 *Majid Baghernejad*, Mostafa Emadi*
A CASE STUDY ON SOIL CLAY MINERALS IN SOME SELECTED HIGHLY CALCAREOUS SOILS OF SEMI-ARID REGIONS, SOUTHERN IRAN
- SS2.Tue.P2 *Hassen Benmessaoud, Mahdi Kalla*
STUDY THE EFFECT OF MECHANICAL DUNES ON SOIL PROPERTIES AND EVOLUTION OF VEGETATION IN THE REGION OF BISKRA – OUMACHE - (ALGERIA)
- SS2.Tue.P3 *Fortunato De Santis, Maria Luigia Giannossi, Salvatore Margiotta*, Vito Summa, Fabio Tateo*
THE COMPOSITIONAL CHARACTERS OF THE SOILS OF SOME SOUTHERN APPENINES LANDSLIDES (BASILICATA REGION)
- SS2.Tue.P4 *Maria Luigia Giannossi, Salvatore Margiotta*, Luca Medici, Vito Summa, Fabio Tateo*
THE EFFECT OF SOIL-WATER INTERACTION PROCESSES ON THE MECHANICAL PROPERTIES OF THE SOILS INVOLVED IN SOME LANDSLIDES IN THE BASILICATA REGION (SOUTHERN ITALY)
- SS2.Tue.P5 *Siroos Jafari*, Majid Baghernejad, Richard J. Heck*
INFLUENCE OF SUGARCANE PRODUCTION AND ROTATION CROPPING ON THE CLAY MINERAL ASSEMBLAGE
- SS2.Tue.P6 *Siroos Jafari*, Majid Baghernejad*
EFFECTS OF WETTING AND DRYING, AND CLAY MINERAL PROPORTIONS ON POTASSIUM FIXATION IN SOME CULTIVATED AND UNCULTIVATED SOILS, IRAN
- SS2.Tue.P7 *Yu Jian*, Yan Yongli, Shi Jigang, I. Shainberg*
DRYING AND CLAY PERCENT EFFECTS ON SUPERABSORBENTS WATER RETENTION
- SS2.Tue.P8 *Jae Gon Kim*, Jeong Sik, Park Chul, Min Chon*
DISPERSION AND ARSENIC DISSOLUTION OF IRON OXIDE RICH SOIL WITH PHOSPHATE AND ANIONIC SURFACTANT
- SS2.Tue.P9 *Abdul K. Kurd*, David N. Chapman, Gurmel S. Ghataora, Alexander C. Royal*
A REVIEW OF THE LITERATURE RELATED TO INVESTIGATING SOIL RESPONSE DUE TO LEAKAGE FROM BURIED WATER PIPES
- SS2.Tue.P10 *N. Madhavan**
USE OF SMALL SEDIMENT PARTICLES TO REMOVE UNWANTED FLUORIDE ELEMENT FROM DRINKING WATER
- SS2.Tue.P11 *Ernest M.M. Marwa*, Andrew A. Meharg, Clive M. Rice*
HEAVY METALS AND ACCESSORY MINERALS IN THE TANZANIAN VERMICULITES WITH RESPECT TO POTENTIAL AGRICULTURAL APPLICATIONS
- SS2.Tue.P12 *Ali Sanaei Raad, Javad Lajevardi Joboni*, Hadi Ahmadi*
ASSESSMENT OF SHEAR STRENGTH PARAMETERS OF FINE SOILS USING FUZZY LOGIC
- SS2.Tue.P13 *Salim Al-Naqib Ali, Al-Juboury*, Kotayba Al-Youzbake*
MINERALOGY OF FRAGIPANS IN ALLUVIAL FAN SEDIMENTS AT SINJAR AREA, NE IRAQ
- SS2.Tue.P14 *Jianhui Cai*, Jiuling Li*
SOIL MINERALOGY OF DEEXING MINING ENVIRONMENTS, CHINA
- SS2.Tue.P15 *I. Caner*, F. Hubert, e. Montarges Pelletier, E. Joussein, H. Rogeon, C. Chenu, C. Moni, F. Claret, B. Watts*
ORGANIC MATTER STABILISATION ONTO FINE CLAY FRACTIONS OF TWO SOILS: APPLICATION OF STXM AND C NEXAFS SPECTROSCOPY