

Oral Programme SS1

Clays and soil forming processes: an evergreen

Conveners: Eleonora Bonifacio, Markus Egli

Sunday 14 June, 2009

Chairs: Eleonora Bonifacio & Markus Egli

- 11.00 – 11.30 SS1a.Sun. KL1
José Torrent, Vidal Barrón*
GENESIS AND TRANSFORMATION OF FERRIMAGNETIC MINERALS IN SOILS AS AFFECTED BY ENVIRONMENTAL FACTORS
- 11.30 – 11.50 SS1a.Sun.L2
Peter C. Ryan, F. Javier Huertas*
THE ORIGIN OF FE-KAOLIN FROM PRECURSOR BEIDELLITE AND INTERSTRATIFIED KAOLIN-SMECTITE IN MOIST TROPICAL SOILS
- 11.50 – 12.10 SS1a.Sun.L3
Jeffrey Hughes, Robert Gilkes, Yee-Kwong Leong, Michael Smirk*
SOME PROPERTIES OF PALLID ZONE KAOLINS FROM WESTERN AUSTRALIA IN RELATION TO GROUNDWATER COMPOSITION
- 12.10 – 12.30 SS1a.Sun.L4
Fabien Hubert, Laurent Caner, Alain Meunier*
SOLVING COMPLEX PEDOGENESIS: USE OF DIRECT XRD PATTERN FITTING TO QUANTIFY CLAY MINERAL ASSEMBLAGE CHANGES
- 12.30 – 12.50 SS1a.Sun.L5
*Edi Mendes Guimarães**
KAOLINITE AND GIBBSITE FROM SUB-TROPICAL SOILS, DISTRITO FEDERAL, BRAZIL

LUNCH 12.50-14.20

Sunday 14 June, 2009

Chairs: Eleonora Bonifacio & Markus Egli

- 14.30 – 15.00 SS1b.Sun.L1
Christian Mavris, Markus Egli, Michael Plötze, Joel Blum, Wilfred Haeblerli*
INITIAL STAGES OF SOIL AND CLAY MINERALS FORMATION IN THE MORTERATSCH PROGLACIAL AREA (UPPER ENGADINE, SWITZERLAND)
- 15.00 – 15.20 SS1b.Sun.L2
Klaus Kaiser, Gritta Grünewald, Reinhold Jahn*
MINERALS AND ORGANICS IN SOIL FORMATION IN ALKALINE SUBSTRATE
- 15.20 – 15.40 SS1b.Sun.L3
Malgorzata Grybos, Patrick Billard, Laurent Michot, Christian Mustin*
DISSOLUTION OF LATH-SHAPED CLAY MINERALS: EVIDENCE FOR BASAL SURFACE REACTIVITY OF NONTRONITE
- 15.40 – 16.00 SS1b.Sun.L4
Michael Plötze, Gerhard Furrer*
GRANITE WEATHERING IN THE DAMMA GLACIER FOREFIELD
- 16.00 – 16.20 SS1b.Sun.L5
Hakime Abaslou, Ali Abtahi, Soheila Sadaat Hashemi*
GENESIS AND DISTRIBUTION OF CLAY MINERALS IN A TRANSECT OF GYPSIFEROUS, CALCAREOUS AND SALINE MATERIALS (SOUTHERN IRAN)

COFFEE BREAK 16.20-16.40

Sunday 14 June, 2009

Chairs: Eleonora Bonifacio & Markus Egli

- 16.40 – 17.10 SS1c.Sun.L1
Nattaporn Prakongkep, Bob Gilkes, Balbir Singh*
MICROCRYSTALLINE PYRITE IN ENDOAQUODS ON THE SWAN COASTAL PLAIN, WESTERN AUSTRALIA: PROPERTIES AND ENVIRONMENTAL CONSEQUENCES
- 17.10 – 17.30 SS1c.Sun.L2
Michal Skiba, David I. Bish*
THE NATURE OF INTERLAYERING IN CLAYS FROM A PODZOL FROM THE TATRA MOUNTAINS, POLAND
- 17.30 – 17.50 SS1c.Sun.L3
Eric Ferrage, Bruno Lanson, Dimitri Pret, Louis Mareschal, Jacques Ranger, Marie-Pierre Turpault*
EVOLUTION OF EXPANDABILITY DURING EXPERIMENTAL ALUMINIZATION OF VERMICULITE INTERLAYERS. AN X-RAY DIFFRACTION PERSPECTIVE ON STRUCTURAL MECHANISMS
- 17.50 – 18.10 SS1c.Sun.L4
A.O. Alekseev, P.I. Kalinin, T.V. Alekseeva*
MODIFICATIONS OF THE MINERALOGICAL COMPOSITION OF SOILS AS RELATED TO STEPPE CLIMATE DYNAMICS
- 18.10 – 18.30 SS1c.Sun.L5
Katrin Wriessnig, Franz Ottner*
PALEOSOILS IN AUSTRIAN LOESS DEPOSITS

Poster Programme SS1

Posting Time: Saturday 13 June; **Removal:** Monday 15 June, 12.50-14.30;

Attendance Time: Sunday, 14 June, 18:30–20:00

Chairs: Eleonora Bonifacio & Markus Egli

- SS1.Sun.P1 *S. Tawornpruek**, *R.J. Gilkes*
PEDOGENIC HERCYNITE, CORUNDUM AND MAGHEMITE IN PISOLITHIC DURICRUST IN LATERITIC BAUXITE IN THE DARLING RANGE, WESTERN AUSTRALIA
- SS1.Sun.P2 *Victor Ya Chertkov**
NEW CHARACTERISTICS OF INTRA-AGGREGATE STRUCTURE AND CLAY SOIL SHRINKAGE
- SS1.Sun.P3 *Michael C. Cheshire**, *David I. Bish*
ROLE AND EVOLUTION OF ORGANIC MATTER WITHIN THE SOUTHEASTERN UNITED STATES KAOLIN DEPOSITS
- SS1.Sun.P4 *Gloria Falsone, Eleonora Bonifacio**
ELECTROPHORETIC MOBILITY AND CLAY MINERALOGY OF SOME FRAGIPAN AND NON-FRAGIPAN SOIL HORIZONS
- SS1.Sun.P5 *Antonio Gianfagna**, *Simona Mazziotti-Tagliani*, *Salvatore Milli*, *Mattia Marini*, *Massimiliano Moscatelli*, *Domenico Cannata*
A COMBINED MINERALOGICAL AND SEDIMENTOLOGICAL APPROACH TO DIFFERENTIATE TURBIDITE MUDSTONES
- SS1.Sun.P6 *Georg Grathoff**, *Hans Ruppert*, *Curt Peterson*
FORMATION OF HIGH ALUMINA PHASES IN DUNAL SOILS FROM OREGON, USA
- SS1.Sun.P7 *Soheila Sadaat Hashemi*, *Majed Baghernejad**
CLAY MINERALOGICAL INVESTIGATION OF SOILS FORMED ON GYPSIFEROUS MATERIALS ON DIFFERENT SOIL MOISTURE REGIMES
- SS1.Sun.P8 *Kenan Killiç**, *Hüseyin Yalçın*
MINERALOGIC CHARACTERISTICS AND GENESIS OF VOLCANIC SOILS RELATED TO ERCIYES STRATOVOLCANO, KAYSERI PROVINCE, TURKEY
- SS1.Sun.P9 *Esmail Saberi Moghadam**, *Ahmad Heidari*, *Kazem Zamanian*
DOMINANT CLAY MINERALS IN SOILS OF IRAN AND FACTORS INVOLVED IN THEIR RELATIVE ABUNDANCE
- SS1.Sun.P10 *Jude Chukwuma Obi**
PROFILE DISTRIBUTION OF CLAY, CALCIUM, MAGNESIUM AND POTASSIUM IN SOME NIGERIAN SOILS
- SS1.Sun.P11 *Hamidreza Owliaie**, *Ebrahim Adhami*
PALYGORSKITE DISTRIBUTION IN RELATION TO CLIMATE AND PARENT MATERIAL IN SOILS OF KOHGILOUYE, IRAN
- SS1.Sun.P12 *Maria T. Cristi Sansone**, *Giacomo Prosser*, *Giovanna Rizzo*, *Saverio Fiore*
WEATHERED PROFILES DEVELOPED FROM SERPENTINITES OF THE FRIDO UNIT - SOUTHERN APENNINE, ITALY - MINERALOGICAL FEATURES
- SS1.Sun.P13 *Mahdeyeh Sheykh Shoaie**
DETERMINATION OF IMPORTANT METAL OXIDES IN THE SOILS OF KERMAN
- SS1.Sun.P14 *Peter Sipos*, *Katalin Judik**, *Tibor Nemeth*
DISTRIBUTION OF IRON AND MANGANESE IN FE-RICH NODULES FROM AN ALLUVIAL SOIL
- SS1.Sun.P15 *M. José Trindade**, *M. Isabel Dias*, *Fernando Rocha*
GEOCHEMISTRY AND MINERALOGY OF BULK ROCK AND CLAY FRACTION OF CLAYEY MATERIALS FROM ALGARVE (SOUTH PORTUGAL)
- SS1.Sun.P16 *Camille Truche**, *Jose Darrozes*, *Anne Bourguignon*, *Sabine Petit*, *Philippe Roubichou*, *François Martin*
CHARACTERIZATION OF CLAY MINERALOGY IN SWELLING SOIL BY INFRARED SPECTROMETRY AT LABORATORY AND FIELD SCALES
- SS1.Sun.P17 *Kazem Zamanian**, *Ahmad Heidari*, *Shahla Mahmoodi*
THE EFFECT OF DIFFERENT MODES OF PETROCALCIC HORIZON FORMATION ON SOIL CLAY MINERALOGY (NORTH CENTRAL IRAN)
- SS1.Sun.P18 *Soheila Dehghan*, *Shima Separdar*, *Amir Delavar**, *Ali Sarabchi*
MINERALOGY OF SOME ARID AND SEMIARID SOILS OF ABYEK PLAIN IN GHAZVIN PROVINCE, IRAN

