

Oral Programme HE5

Moisture Transport through Clay

Conveners: Laurie Aldridge, Heloisa N. Bordallo, Will Gates

Thursday 18 June, 2009

Chair: Heloisa N. Bordallo

- 08.50 – 09.20 HE5a.Thu.KL1
*V. Marry**, *B. Rotenberg*, *N. Malikova*, *P. Turq*
STRUCTURE AND DYNAMICS OF WATER IN CLAYS FROM MOLECULAR SIMULATIONS
- 09.20 – 09.40 HE5a.Thu.L2
*Tilo Seydel**, *Lutz Wiegart*, *Fanni Jurany*, *Bernd Struth*, *Helmut Schober*
UNAFFECTED MICROSCOPIC DYNAMICS OF MACROSCOPICALLY ARRESTED WATER IN DILUTE CLAY GELS
- 09.40 – 10.00 HE5a.Thu.L3
*Isabelle Bihanic**, *Manuel Pelletier*, *Angelina Razafitianamaharavo*, *Laurent J. Michot*, *Frédéric Villieras*
COMPACTED CLAY SAMPLES: A MULTI-SCALE DESCRIPTION OF POROSITY
- 10.00 – 10.20 HE5a.Thu.L4
*George E. Christidis**
ENVIRONMENTAL APPLICATIONS OF SMECTITES AND ZEOLITES RELATED TO LAYER CHARGE AND CATION EXCHANGE CAPACITY
- 10.20 – 10.40 HE5a.Thu.L5
*Mustafa Cinar**, *Gafure Ersever*, *Oktay Sahbaz*, *Mehmet S. Çelik*
SEPIOLITE CALCIUM INTERACTIONS IN DESICCANT CLAY PRODUCTION

COFFEE BREAK 10.40-11.00

Thursday 18 June, 2009

Chair: George Christidis

- 11.00 – 11.30 HE5b.Thu.L1
H. Vereecken, *A. Pohlmeier**, *L. Stingaciu*, *N. Spindler*, *T. Schröder*, *M. Javaux*, *J. Vanderborght*
NUCLEAR MAGNETIC RESONANCE METHODS TO STUDY IN SUBSURFACE ENVIRONMENTS
- 11.30 – 11.50 HE5b.Thu.L2
*Neal Skipper**, *Felix Fernandez-Alonso*, *Michael Wilkinson*
WATER DYNAMICS IN COMPACTED CLAYS
- 11.50 – 12.10 HE5b.Thu.L3
*A. Pohlmeier**, *L. Stingaciu*, *S. Haber-Pohlmeier*, *A. Haber*, *B. Blümich*, *S. Stapf*, *H. Vereecken*
NMR RELAXOMETRY OF PARTIALLY SATURATED MODEL SOILS
- 12.10 – 12.20 HE5b.Thu.L4
*Enrique Romero**, *Alessio Ferrari*
ASSESSMENT OF THE VOLUME CHANGE BEHAVIOUR OF CLAY AGGREGATES BY ESEM OBSERVATIONS
- 12.20 – 12.40 HE5b.Thu.L5
*Phebe Chung**, *Apostolos Kantzas*
UNDERSTANDING THE BEHAVIOUR OF DEHYDRATED AND HYDRATED CLAYS USING LOW-FIELD NMR

Poster Programme HE5

Posting: Wednesday 17 June, 20.30-22.30. **Removal:** Friday 19 June.

Attendance Time: Thursday 18 June, 18:30–20:00

Chair: Heloisa N. Bordallo

- HE5.Thu.P1 *Ana María Fernández*, Ana María Melón*
WATER STATES AND TYPES OF WATER IN DIFFERENT ARGILLACEOUS FORMATIONS
- HE5.Thu.P2 *Guido Musso*, Enrique Romero*
PORE SIZE DISTRIBUTION EFFECTS ON THE HYDRO-CHEMO-MECHANICAL BEHAVIOUR OF BENTONITE
- HE5.Thu.P3 *Lars Ramstad Alme, Yves Méheust, Jon O. Fossum**
HUMIDITY TRANSPORT IN QUASI ONE-DIMENSIONAL NA FLUOROHECTORITE POWDERS
- HE5.Thu.P4 *Phebe Chung*, Apostolos Kantzas*
USING LOW- FIELD NMR IN THE STUDY OF FROZEN SOILS
- HE5.Thu.P5 *Heloisa N. Bordallo*, Laurence P. Aldridge, G. Jock Churchman, Will P. Gates*
CHARACTERIZING WATER MOBILITY IN NATURAL SOILS BY QUASI-ELASTIC AND NEUTRON SPIN ECHO
- HE5.Thu.P6 *Esperanza Pavón*, Miguel A. Castro, María D. Alba, María Del Mar orta, Carolina Pazos, Moisés Naranjo, Neal Skipper, Gabriel Cuello*
MONTE-CARLO SIMULATIONS OF INORGANIC CATIONS IN EXPANDABLE MICAS
- HE5.Thu.P7 *A.N. Rozko*, Vu.G. Fedorenko*
SYNTHESIS, SWELLING OF KAOLIN-POLYAKRYLAMIDE COMPOSITES AND THEIR SORPTION CAPACITY FOR¹³⁷Cs
- HE5.Thu.P8 *Fabrice Salles*, Sabine Devautour-Vinot, Jean-Marc Douillard, Olivier Bildstein, Michel Jullien, Henri Van Damme*
DETERMINATION OF HYDRATION ENERGIES IN SWELLING CLAYS AND DIFFUSION COEFFICIENTS BY CONDUCTIVITY MEASUREMENTS
- HE5.Thu.P9 *María Victoria Villar*, Ana María Fernández, Ana María Melón*
EFFECT OF WETTING/DRYING CYCLES ON THE WATER RETENTION CAPACITY OF AN ARGILLITE