

## Oral Programme NM8

### Self-assembly from Clay Particles: From Nano to Macro

Convener: Jon Otto Fossum

Friday 19 June, 2009

Chair: Jon Otto Fossum

- 08.50 – 09.20 NM8a.Fri.KL1  
*Eduardo N. De Azevedo, Mario Engelsberg\*, Jon Otto Fossum, Ricardo E. De Souza*  
SELF-ASSEMBLY AND DYNAMICS OF CLAY PLATELETS IN A MAGNETIC FIELD
- 09.20 – 09.40 NM8a.Fri.L2  
*Isabelle Bihannic\*, Erwan Paineau, Solange Maddi, Jérôme F.L. Duval, Christophe Baravian, Pierre Levitz, Patrick Davidson*  
PHASE TRANSITIONS IN AQUEOUS SUSPENSIONS OF SWELLING CLAYS MINERALS
- 09.40 – 10.00 NM8a.Fri.L3  
*Nobuyoshi Miyamoto\*, Hirokazu Iijima, Hirokazu Ohkubo, Daisuke Yamaguchi*  
ISOTROPIC-TO-LIQUID CRYSTAL PHASE TRANSITION OF LAYERED CLAY MINERAL COLLOIDS
- 10.00 – 10.20 NM8a.Fri.L4  
*Erwan Paineau\*, Krassa Antonova, Ivan Dozov, Patrick Davidson, Laurent Michot, Isabelle Bihannic, Christophe Baravian, Pierre Levitz*  
FIELD-INDUCED ORIENTATIONAL ORDER IN AQUEOUS BEIDELLITE SUSPENSIONS
- 10.20 – 10.40 NM8a.Fri.L5  
*Henrik Hemmen\*, Nils Ringdal, Eduardo Novais De Azevedo, Elisabeth Lindbo, Hansen Matteus, Håger Yves Méheust, Jon Otto Fossum, Mario Engelsberg, Kenneth D. Knudsen*  
ISOTROPIC-NEMATIC INTERFACES IN SUSPENSIONS OF NA-FLUOROHECTORITE SYNTHETIC CLAY – ORDER, ORIENTATION AND MAGNETIC FIELD RESPONSE

COFFEE BREAK 10.40-11.00

Friday 19 June, 2009

Chair: Jon Otto Fossum

- 11.00 – 11.30 NM8b.Fri.L1  
*Daniel Bonn\**  
AVALANCHE BEHAVIOR IN CLAY SUSPENSIONS
- 11.30 – 11.50 NM8b.Fri.L2  
*Mokhtar Zabat, Henri Van Damme\**  
MICROTEXTURE AND MECHANICAL PROPERTIES OF SELF-ASSEMBLED SMECTITE FILMS
- 11.50 – 12.10 NM8b.Fri.L3  
*Maurice C.D. Mourad\*, Dmytro V. Byelov, Andrei V. Petukhov, Henk N.W. Lekkerkerker*  
GELATION/GLASS FORMATION VERSUS LIQUID CRYSTAL PHASE TRANSITIONS IN SUSPENSIONS OF CHARGED COLLOIDAL PLATELETS
- 12.10 – 12.30 NM8b.Fri.L4  
*A.A. Verhoeff\*, H.H. Wensink, G. Jackson, H.N.W. Lekkerkerker*  
LIQUID CRYSTAL PHASE TRANSITIONS IN A SYSTEM OF COLLOIDAL PLATELETS WITH A BIMODAL ASPECT RATIO
- 12.30 – 12.50 NM8b.Fri.L5  
*Elisabeth Lindbo Hansen\*, Nils Ivar Ringdal, Bård Martin Kjelling, Henrik Hemmen, Jon Otto Fossum, Eduardo Novais De Azevedo, Mario Engelsberg, Yves Méheust, Chan Kim, Shashidhara Marathe, In Wha Cho, Do Young Noh*  
HIGHLY ORDERED NEMATIC PHASES AND EMERGING POSITIONAL ORDERING IN AQUEOUS DISPERSIONS OF SODIUM-FLUOROHECTORITE

LUNCH 12.50-14.20

**Friday 19 June, 2009**

**Chair:** Jon Otto Fossum

- 14.30 – 15.00      NM8c.Fri.L1  
*Fei Fei Fang, Ying Dan Liu, Hyoung Jin Choi\**  
PHASE TRANSITION OF CONDUCTING POLYMER/CLAY NANOCOMPOSITE SUSPENSIONS UNDER ELECTRIC FIELD
- 15.00 – 15.20      NM8c.Fri.L2  
*Erwan Paineau\*, Laurent J. Michot, Isabelle Bihannic, Solange Maddi, Christophe Baravian, Patrick Davidson, Pierre Levitz*  
LIQUID CRYSTAL PHASES IN AQUEOUS SUSPENSIONS OF NATURAL BEIDELLITE
- 15.20 – 15.40      NM8c.Fri.L3  
*Zbigniew Rozynek\*, Baoxiang Wang, Min Zhou, Jon Otto Fossum*  
DYNAMIC COLUMN FORMATION OF NA-FLHC CLAY PARTICLES: WIDE ANGLE X-RAY SCATTERING AND RHEOLOGICAL STUDIES

**Poster Programme NM8**

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

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

**Chair:** Jon Otto Fossum

- NM8.Thu.P1 *Yoshiyuki Kuroda\**, *Kohta Fukumoto*, *Takashi Ogawa*, *Kazuyuki Kuroda*  
ELECTROSTATIC ASSEMBLY OF IMOGOLITE WITH POLY(SODIUM STYRENESULFONATE) OR CARBOXYLATE-MODIFIED GOLD NANOPARTICLES
- NM8.Thu.P2 *Virginia Martínez\**, *Iñigo López Arbeloa*, *T. Arbeloa*, *Fernando López Arbeloa*  
STUDY OF THE MICROHETEROGENEITY OF ADSORBED DYES INTO SINGLE CLAY PARTICLES BY CONFOCAL FLUORESCENCE MICROSCOPY
- NM8.Thu.P3 *Davi De Miranda Fonseca*, *Yves Méheust*, *Jon Otto Fossum\**, *Kenneth Dah IKnudsen*  
PHASE DIAGRAM OF POLYDISPERSE NA-FLUOROHECTORITE--WATER SUSPENSIONS: A SYNCHROTRON SMALL-ANGLE X-RAY SCATTERING STUDY
- NM8.Thu.P4 *Baoxiang Wang\**, *Zbigniew Rozynek*, *Henrik Hemmen*, *Elisabeth Lindbo Hansen*, *Jon Otto Fossum*  
ELECTORHEOLOGICAL BEHAVIOUR OF NEMATICALLY PHASE SEPARATED NA-FLUOROHECTORI