

Oral Programme NM7

Polymer-clay nanocomposites: preparation techniques and theoretical formulations

Conveners: Kazuko Fujii, Vikas Mittal, Yury Shchipunov

Monday 15 June, 2009

Chairs: Kazuko Fujii & Vikas Mittal

- 08.50 – 09.20 NM7a.Mon.KL1
*In-Joo Chin**, *Sang-Kyun Lim*, *Eun-Pyo Hong*, *Yu-Hyun Song*, *Na-Yeon Kim*
INTERACTION CHARACTERISTICS OF POLYMER NANOHYRIDS WITH POLYHEDRAL OLIGOMERIC SILSESQUOXANE (POSS)
- 09.20 – 09.40 NM7a.Mon.L2
Bassam Tarablsi, *Jocelyne Brendle**, *Christelle Delaite*, *Celine Croutxe-Barghorn*
POLYMER-Fe₂O₃-MONTMORILLONITE NANOCOMPOSITES: PREPARATION, CHARACTERIZATION AND PROPERTIES
- 09.40 – 10.00 NM7a.Mon.L3
*Hendrik Heinz**, *Yao-Tsung Fu*, *Gregory D. Zartman*, *Richard A. Vaia*, *Ramanan Krishnamoortibarry*, *I. Farmer*
STRUCTURE AND CLEAVAGE ENERGY OF SURFACTANT-MODIFIED CLAYS: INFLUENCE OF CEC, HEAD GROUP, AND CHAIN LENGTH
- 10.00 – 10.20 NM7a.Mon.L4
*Kenji Tamura**, *Hirohisa Yamada*, *Shingo Yokoyama*, *Keiji Kurashima*
PREPARATION OF REGULARLY INTERSTRATIFIED LAYERED SILICATE-POLYMER NANOCOMPOSITE
- 10.20 – 10.40 NM7a.Mon.L5
Elshad Abdullayev, *Stefano Loporatti**, *Viviana Vergaro*, *Benedetta Antonazzo*, *Pantaleo Davide*, *Cozzoli Roberto*, *Cingolani Ronald*, *Price Yuri*, *M. Lvov*
HALLOYSITE CLAY TUBES AS BIOCOMPATIBLE NANOCONTAINER FOR SUSTAINED RELEASE OF PROTECTIVE AGENTS

COFFEE BREAK 10.40-11.00

Monday 15 June, 2009

Chairs: Vikas Mittal

- 11.00 – 11.30 NM7b.Mon.L1
*Yoshiaki Fukushima**
DIVERSIFIED NANO-HYBRIDS OF POLYAMIDES PRODUCTION METODS AND STRUCTURE
- 11.30 – 11.50 NM7b.Mon.L2
*Francis Clegg**, *Chris Breen*
MIXED MODIFIER ORGANOCCLAYS - CONTROLLING CLAY DISPERSION IN POLYMERS
- 11.50 – 12.10 NM7b.Mon.L3
*František Kovanda**, *Eva Jindová*, *Zdeňka Sedláková*
LAYERED DOUBLE HYDROXIDES INTERCALATED WITH DERIVATIVES OF ACRYLIC ACID AND THEIR APPLICATION IN PREPARATION OF LDH/POLYMER NANOCOMPOSITES
- 12.10 – 12.30 NM7b.Mon.L4
*Maurice C.D. Mourad**, *Henk N.W. Lekkerkerker*
PREPARATION OF POLYMER-HECTORITE NANOCOMPOSITES USING LIQUID CRYSTALLINE SUSPENSIONS OF ORGANOPHILLIC HECTORITE
- 12.30 – 12.50 NM7b.Mon.L5
*Kazuko Fujii**, *Shigenobu Hayashi*, *Nobuo Iyi*
PHYLLOSILICATE/ORGANIC HYBRIDS WITH COVALENT BONDS BETWEEN INROGANIC AND ORGANIC MOIETIES: VERIFICATION OF STRUCTURES AND PREPARATION OF HETEROGENEOUS SYSTEMS WITH LUMINESCENCE

Poster Programme NM7

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

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

Chairs: Kazuko Fujii & Vikas Mittal

- NM7.Sun.P1 *Carolina Belver, Pilar Aranda*, M. Ángeles Martín-Luengo, Eduardo Ruiz-Hitzk*
SILICA/ALUMINA-CLAY POROUS NANOCOMPOSITES
- NM7.Sun.P2 *Grażyna Simha Martynková*, Sylva Holešová, Marta Valášková*
THE ADVANTAGES OF ORGANOVERMICULITE FILLER FOR NANOCOMPOSITE'S MATRICES
- NM7.Sun.P3 *Tomás S. Plivelic, Suédina M.L. Silva, Zbigniew Rozynek*, Baoxiang Wang, Eduardo N. De Azevedo, Geraldo J. Da silva, Jon Otto Fossum*
STRUCTURAL CHANGES IN POLYMER/CLAY MELTED NANOCOMPOSITES INDUCED BY ELECTRIC FIELDS
- NM7.Sun.P4 *Pedro G. Lins*, Ticiane S. Valera, Caio P.D. Coelho, Nicole R. Demarquett*
PS / ORGANOCCLAYS NANOCOMPOSITES: IMPROVEMENTS IN THE MELT INTERCALATION METHOD
- NM7.Sun.P5 *Antonio C. Vieira-Coelho*, Gisele A. Rocha, Fádía Lima, Valquíria F. J. Kozievitch, Antonio J. Aznar*
STUDY OF THE EXFOLIATION OF A NATURAL MICA AND A NATURAL VERMICULITE BY BRANCHED POLYAMINES HAVING MULTIPLE IONIC SITES
- NM7.Sun.P6 *Baoxiang Wang*, Zbigniew Rozynek, Min Zhou, Jon Otto Fossum*
WIDE ANGLE SCATTERING STUDY OF A CLAY/GELATIN ELECTORRHEOLOGICAL ELASTOMER
- NM7.Sun.P7 *Fernanda Monasterio, Marcos Lopes Dias*, Victor Pita, Eleonora Erdmann, Hugo Destéfánis*
SYNTHESIS OF INTERGALLERY PDMS BY DIFFERENT PATHS FOR MONTMORILLONITE MODIFICATION
- NM7.Sun.P8 *María Celeste Carrera, Marcos Lopes Dias, Victor Pita, Eleonora Erdmann*, Delicia Acosta, Hugo Destéfánis*
POLY (VINYL ALCOHOL)/ MONTMORILLONITE HYBRID MATERIALS PREPARED BY "IN SITU" POLYMERIZATION
- NM7.Sun.P9 *María Antonia Toro*, Eleonora Erdmann, Victor J.R.R. Pita, Marcos Lopes Dias, Y. Hugo Destéfánis*
SYNTHESIS AND CHARACTERIZATION OF MODIFIED MONTMORILLONITE WITH ORGANIC CYCLIC COMPOUNDS
- NM7.Sun.P10 *Tatiana Batista, Carla C. Schmitt, Miguel G. Neumann**
PHOTOPOLYMERIZATION OF STYRENESULFONATE IN THE PRESENCE OF LAPONITE
- NM7.Sun.P11 *Beril Çolak*, Mirey Bonfil, Oya (Galioglu) Atici*
BIODEGRADABLE POLY(VINYLPYRROLIDONE-CO-MALEIC ACID) / CLAY NANOCOMPOSITES: PREPARATION AND CHARACTERIZATION
- NM7.Sun.P12 *Masaaki Tani*, Yoshiaki Fukusima*
ORGANIC-INORGANIC HYBRID PHYLLOSILICATE; SYNTHESIS AND APPLICATION
- NM7.Sun.P13 *Vikas Mittal**
ADVANCED SURFACE FUNCTIONALIZED CLAY
- NM7.Sun.P14 *Yasser El-Nahhal**
ECOLOGICALLY ACCEPTABLE FORMULATION OF BROMOXYNIL
- NM7.Sun.P15 *Yoshikazu Kameshima*, Ya Nakada, Toshihiro Isobe, Akira Nakajima, Kiyoshi Okada*
THE EFFECT OF UV RADIATION ON SODIUM CINNAMATE / LAYERED DOUBLE HYDROXIDE (LDH) COMPOSITES
- NM7.Sun.P16 *J. Pascual-Cosp, C. Jiménez –León*, R. Artiaga, M. Benítez-Guerrero, A. Ramirez Del Valle*
KAOLINITE-MESITILE OXIDE INTERCALATION COMPOUND, SYNTHESIS AND CHARACTERIZATION
- NM7.Sun.P17 *Hongliang Xu*, Meng Wang, Qinfu Liu, Hailong Wang, Kaijun Yang, Rui Zhang, Shaokang Guan*
PREPARATION AND STABILITY OF KAOLINITE - POTASSIUM ACETATE INTERCALATION COMPLEX
- NM7.Sun.P18 *Shuli Ding*, Qinfu Liu, Mingzhen Wang*
A NEW PREPARATION OF NANO-KAOLINITE
- NM7.Sun.P19 *Lili Zhang*, Fujian Lv, Jianquan Liu, Cao Tang, Jichang Zhuang, Xin Wang*
SYNTHESIS OF ATTAPULGITE-SNO₂-TiO₂ NANOCOMPOSITES AND ITS PHOTOCATALYTIC PROPERTY IN DEGRADATION OF METHYL ORANGE
- NM7.Sun.P20 *Serife Sarioglan**
PREPARATION AND CHARACTERIZATION OF CONDUCTIVE POLY(3,4ETHYLENEDIOXYTHIOPHENE)

/MONTMORILLONITE NANOCOMPOSITE