

Oral Programme NM6

Polymer-clay nanocomposites: advantages, properties and uses

Conveners: Pascua Chelo, Giovanni Camino, Liqun Zhang

Sunday 14 June, 2009

Chairs: Pascua Chelo & Li-Qun Zhang

- 11.00 – 11.30 NM6a.Sun.KL1
*M. Zammarano, S. Rahatekar, D. M. Fox, P. C. Trulove, H. C De Long, P. H. Maupin, J. W. Gilman**
CLAY POLYMER NANOCOMPOSITES
- 11.30 – 11.50 NM6a.Sun.L2
Priscila Anadão, Laís Sato, Hélio Wiebeck, Francisco Valenzuela-Díaz*
POLYSULFONE-SODIUM BENTONITE NANOCOMPOSITE MEMBRANES
- 11.50 – 12.10 NM6a.Sun.L3
*Nimrod Blieman, Yael G.Mishael**
DEVELOPING AND APPLYING POLYCATION-CLAY COMPOSITES FOR THE REMOVAL OF SELENIUM FROM DRINKING WATER
- 12.10 – 12.30 NM6a.Sun.L4
*Francis C. Clegg, Simon Thompson, Chris Breen**
THE INFLUENCE OF CLAY AND PLASTICISER ON THE BARRIER PROPERTIES OF STARCH NANOCOMPOSITE PAPER COATINGS
- 12.30 – 12.50 NM6a.Sun.L5
Umberto Costantino, Morena Nocchetti, Michele Sisani*
ORGANICALLY MODIFIED HYDROTALCITE-LIKE ANIONIC CLAYS, NON CONVENTIONAL FILLERS OF POLYMERIC COMPOSITES

LUNCH 12.50-14.20

Sunday 14 June, 2009

Chair: Faïza Annabi-Bergaya

- 14.30 – 15.00 NM6b.Sun.L1
Cenk Denktas, Hale Berber, Hüseyin Yildirim*
PREPARATION, CHARACTERIZATION AND MECHANICAL PROPERTIES OF CLAY-PVAC LATEX BASED NANOCOMPOSITES
- 15.00 – 15.20 NM6b.Sun.L2
Margaret Louise L Honrado, Chelo S. Pascua, Eleanor Olegario, Carlo A. Arcilla*
EVALUATION OF DOMESTIC BENTONITE DEPOSITS FOR NANOCOMPOSITES
- 15.20 – 15.40 NM6b.Sun.L3
Masami Okamoto, Kumiko Asai*
REAL-TIME INVESTIGATION OF CRYSTALLIZATION IN PVDF-BASED NANOCOMPOSITES
- 15.40 – 16.00 NM6b.Sun.L4
*Huanli Qin, Shimin Zhang, Mingshu Yang**
THE ENVIRONMENTAL STABILITY AND FLAMMABILITY OF POLYMER/CLAY NANOCOMPOSITES
- 16.00 – 16.20 NM6b.Sun.L5
Hideo Sawada, Airi Takebayashi, Tsukasa Tashima*
PREPARATION AND THERMAL STABILITY OF NOVEL FLUOROALKYL END-CAPPED OLIGMERS/CLAY AND /SILICA NANOCOMPOSITES

COFFEE BREAK 16.20-16.40

Sunday 14 June, 2009

Chairs: Pascua Chelo & Li-Qun Zhang

- 16.40 – 17.10 NM6c.Sun.L1
Hua shao, Thomas J. Pinnavaia*
TRANSPARENT EPOXY-CLAY FABRIC FILMS COMPOSITES WITH HIGH GAS BARRIER PROPERTIES

- 17.10 – 17.30 NM6c.Sun.L2
*Navinchandra G. Shimpi, Satyendra Mishra**
EFFECT OF IMPROVED D-SPACING OF MONTOMORILLONITE ON PROPERTIES OF POLY (VINYL CHLORIDE) – NANOCOMPOSITES
- 17.30 – 17.50 NM6c.Sun.L3
*Rahul Singhal, Monika Datta**
MONTMORILLONITE NANO COMPOSITES FOR ORAL DRUG DELIVERY SYSTEM
- 17.50 – 18.10 NM6c.Sun.L4
Li-Qun Zhang, Youping Wu, Yiqing Wang, Yonglai Lu*
PREPARATION, STRUCTURE, PERFORMANCE, INDUSTRIALIZATION AND APPLICATION OF ADVANCED RUBBER/CLAY NANOCOMPOSITES
- 18.10 – 18.30 NM6c.Sun.L5
Sarat k. Swain, Avraam I. Isayev*
STUDY OF NYLON 6/CLAY NANOCOMPOSITES BY CONTINUOUS SONICATION PROCESS

Poster Programme NM6

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

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

Chairs: Faiza Annabi-Bergaya & Pascua Chelo

- NM6.Sun.P1 *T. Drage, J.J Lligat, R.A Pethrick, I. Rhoney, C.E. Snape, Shafique A.A Rain**
SYNTHESIS, THERMAL, BURNING OF NANOCOMPOSITE POLYURETHANE FOAMS
- NM6.Sun.P2 *Chelo S. Pascua*, Hirohisa Yamada, Kenji Tamura*
PHOTOCATALYTIC SYNTHETIC ZINC- SMECTITES
- NM6.Sun.P3 *A. Zehtab Yazdi*, R. Bagheri, M. Kazeminezhad*
A NEW MICROMECHANICAL APPROACH TO THE PLSNS CONTAINING EXFOLIATED/INTERCALATED
- NM6.Sun.P4 *A. Zehtab Yazdi*, R. Bagheri, M. Kazeminezhad*
ON THE MICROMECHANICAL APPROACH OF PLSNS CONTAINING FULLY INTERCALATED STRUCTURES
- NM6.Sun.P5 *Rym Akkari*, Ezzedine Srasra*
POLYBENZIDINE-CLAY HYBRID MATERIALS: A NOVEL METHOD OF PREPARATION
- NM6.Sun.P6 *L. Aouinti*, D. Roizard, GH. Hu, F. Thomas, M. Belbachir*
STUDY OF NANOCLAY LOADED PVC AS NOVEL MIXED MATRIX MEMBRANES FOR THE SEPARATION OF
TOLUENE- HEPTANE MIXTURES BY PERVAPOARATION
- NM6.Sun.P7 *Michael J. Barwood*, Francis C. Clegg, Chris Breen*
THE EFFECT OF (ORGANO)CLAY ADDITION ON THE PROPERTIES AND USES OF SHAPE MEMORY POLYMERS
- NM6.Sun.P8 *Jana Hrachová*, Peter Komadel, Ivan Chodák*
ORGANO-MODIFIED CLAYS AND THEIR APPLICATION IN POLYMER (NANO)COMPOSITES
- NM6.Sun.P9 *Khairuddin, Francis C. Clegg, Chris Breen**
THE INTERACTION BETWEEN PLASTICISERS AND CLAY IN POLYVINYLALCOHOL NANOCOMPOSITES
- NM6.Sun.P10 *Siriwan Kittinaovarat*, Panida Kansomwan, Nantana Jiratumnukul*
ADSORPTION BEHAVIOR OF AQUEOUS REACTIVE RED 120 DYE BY CHITOSAN/MODIFIED MONTMORILLONITE
COMPOSITE BEADS
- NM6.Sun.P11 *Daniel A.Kunz, Andreas Fery, Josef Breu**
DEFORMATION MEASUREMENTS ON SMALL SINGULAR CLAY TACTOIDS
- NM6.Sun.P12 *Nada Marstijepović*, Dragica Kovacevic, Zorica Potpara*
COMPARISON GRANULOMETRIC ANALYSIS SAMPLE ILLITE-KAOLINITE CLAYS ON THE MICROSTRUCTURE OF
SINTERED PRODUCT
- NM6.Sun.P13 *Chelo S. Pascua*, Margaret Louise, I. Honrado, Hirohisa Yamada, Kenji Tamura, Carlo A. Arcilla*
ORIENTED CLAY-POLYMER NANOCOMPOSITES
- NM6.Sun.P14 *Carmen Pesquera*, Fernando González, Ana Perdigón, Carmen Blanco, Yolanda Gómez, Olga Vega, Giovanni Camino*
FLUOROHECTORITE MODIFIED WITH A FLUOROSURFACTANT: XRD AND THERMAL STUDIES
- NM6.Sun.P15 *Hideo Sawada*, Airi Takebayashi*
PREPARATION AND APPLICATIONS OF NOVEL FLUOROALKYL END-CAPPED 2-ACRYLAMIDO-2-
METHYLPROPANESULFONIC ACID OLIGOMER/CLAY NANOCOMPOSITES
- NM6.Sun.P16 *Rahul Singhal*, Seema Datta, Monika Datta*
SYNTHESIS AND CHARACTERIZATION OF MONTMORILLONITE - Poly(D,L-Lactide-Co-Glycolide)
NANOCOMPOSITE FOR ORAL DRUG DELIVERY SYSTEM
- NM6.Sun.P17 *Siti Norasmah Surip*, Sahrim Ahmad*
THERMOPLASTIC NATURAL RUBBER NANOCOMPOSITE: THE EFFECTS OF RUBBER COMPOSITION ON THE
TENSILE AND IMPACT PROPERTIES
- NM6.Sun.P18 *África Yebra-Rodríguez, Pedro Alvarez-Illret, Ana Yebra, Carolina Cardell, Alejandro B. Rodríguez-Navarro**
OPTICAL PROPERTIES OF POLYAMIDE-6/MONTMORILLONITE NANOCOMPOSITES

- NM6.Sun.P19 *Dingsheng Yu**, *Riwei Xu*, *Qiao Chen*
INFLUENCE OF ORGANICALLY MODIFIED MONTMORILLONITE (OMMT) ON THE CURING BEHAVIOR OF BENZOXAZINE MONOMER CONTAINING P-ALLYL GROUP AND THERMAL PROPERTIES OF THE POLYMER THEREFORE
- NM6.Sun.P20 *Siby Varghese**, *Rubber Technology Division*
NATURAL RUBBER NANOCOMPOSITES: PERFORMANCE OF NANOCCLAYS IN LATEX AND DRY MIXING SYSTEMS
- NM6.Sun.P21 *Ernie Suzana Ali**, *Sahrim Hj Ahmad*
BIO-NANOCOMPOSITE HYBRID POLYURETHANE FOAM: COMPRESSION AND THERMAL PROPERTIES
- NM6.Sun.P22 *Andry Rico Razakamanantsoa**, *Gilles Barast*, *Irini Djeran-Maigre*
CHEMICAL CONSIDERATION OF LONG TERM HYDRAULIC CONDUCTIVITY DETERMINATION FOR CLAY-POLYMER TREATED SOIL