



5th International Conference on
**NANOSTRUCTURED POLYMERS AND
NANOCOMPOSITES**

PARIS - FRANCE

April 15-17, 2009

Arts et Métiers ParisTech

Grand Amphithéâtre

Bld. de l'Hôpital (Metro Place d'Italie)



PROGRAMME

WEDNESDAY APRIL 15th

8 :30 Welcome – Registration

9 :45 Opening Session

J. KENNY President ECNP

J.F. GERARD Vice-President ECNP

Chair: J. KENNY University Perugia (Italy) / **J.F. GERARD** Université de Lyon (France)

10 :00 Opening Lecture : J.M. LEHN – Nobel Prize - ISIS Université de Strasbourg

Dynamers: Dynamic molecular and supramolecular polymers

10:40 *Amphiphilic block versus 'block-like' copolymers: synthesis, micellization and pigment stabilization*

B. Dervaux, P. Du Prez, Ghent University, Department of Organic Chemistry, Ghent, Belgium.

11:00 *Construction of functional hybrid materials by the nanobuilding block approach*

L. Rozes, Laboratoire Chimie de la Matière Condensée de Paris, Université Pierre et Marie Paris, France

11 :20 *Nanostructured Polymer Composite Nanoparticles Prepared in a single step via*

Simultaneous ROMP and ATRP in Dispersed Media

V. Héroguez, C. Airaud, E. Ibarboure, Laboratoire de Chimie des Polymères Organiques, UMR CNRS-Université Bordeaux 1-ENSCP, Pessac, France

11 :40 *Functional block copolymers for nanostructured and functional thin films by combination of CRP and click reactions*

J. Stadermann, S. Fleischmann, H. Komber, C. Tock, B. Voit, Leibniz Institute of Polymer Research Dresden e.V., Dresden, Germany

12 :00 **Invited Lecture : L. BERGLUND** – KTH University Stockholm (Sweden)

Nanostructured cellulose materials for novel functionalities

12 :30 Lunch

Chair: B. VOIT Institute für Polymerforschung Dresden (Germany) / **C. GALIOTIS** FORTH-ICEHT (Greece)

14 :00 Invited Lecture : G. REITER Freiburg University (Germany)

Cloning Polymer Single Crystals via Self-seeding

14:30 *Surface Nanostructuring by polymer and block copolymer self-assembly*

N. Blondiaux, A. M. Popa, F. Montagne, M. Giazzon, M. Liley, R. Pugin, Swiss Center for Electronics and Microtechnology (CSEM SA), Nanotechnology and Life Sciences Division Jaquet-Droz , Neuchâtel, Switzerland

14:50 *Polymer Brushes for Functional Surface Sensors*

M. Stamm, S. Gupta, L. Ionov, P. Uhlmann, Leibniz-Institut für Polymerforschung Dresden (IPF), Dresden, Germany

15:10 *Wettability, surface morphology and biofouling release of nanofilled silicone-based marine coatings*

- A. Beigbeder, M. Jeusette, R. Mincheva, M. Claes, P. Brocorens, R. Lazzaroni, P. Dubois, CIRIMAT, University of Mons-Hainaut, Belgium
- 15:30 *Silver- and gold-epoxy nanostructured coatings: preparation and characterization*
M. Sangermano, Y. Yagci, Dipartimento di Scienza dei Materiali e Ingegneria Chimica, Politecnico di Torino, Torino, Italy / Istanbul Technical University, Department of Chemistry, Maslak, Istanbul, Turkey
- 15:50 *Transparent electrodes based on carbon nanotubes: from networks to self sorted thin films*
L. Valentini, S. Bittolo Bon, M. Cardinali, D. Bagnis, J. M. Kenny, Civil and Environmental Engineering Department, University of Perugia, INSTM - NIPLAB, Udr Perugia, Terni – Italy
- 16:10 *Polymer and hybrid nanocomposite coatings*
O. Figovsky, L. Shapovalov, N. Blank International Nanotechnology Research Center Polymate, Israel
- 16 :30 Coffee break
- 17 :00 Poster Session
- 18 :30 Wine & Cheese

THURSDAY APRIL 16th

Chair: **K. DUSEK** Institute für Polymerforschung Dresden (Germany) / **J. ULANSKI** Technical University Lodz (Poland)

- 9:00 **Invited Lecture : J.S. ROMAN CSIC Madrid (Spain)**
Relation of composition and microstructure with the bioactivity of biomedical polymers: A useful way to modulate the targeting and controlled release of polymer drugs
- 9:30 *Comparative study of smart composites based on magnetic nanoparticles and stimuli responsive polymers*
R. Turcu, A. Nan, O. Pana, I. Craciunescu, C. Leostean, I. Bratu, S. Macavei, National Institute R&D of Isotopic and Molecular Technologies, Cluj-Napoca, Romania
- 9:50 *Tailored polymer-based nanofibers and nanotubes. From Preparation to Applications*
J. Martín, Y. Maiz, C. Mijangos, Institute de Ciencia y Tecnología de Polímeros, Madrid, Spain
- 10:10 *From elaboration to physical properties analysis of ferroelectric hybrid nanocomposites*
J.F. Capsal, E. Dantras, L. Laffont, C. Lacabanne, Laboratoire de Physique des Polymères, CIRIMAT, Université Paul Sabatier, Toulouse, France.
- 10 :30 *Comparison of rheological and electrical percolation of carbon black and multiwall carbon nanotubes in epoxy polymer systems*
J. Sumfleth, X. Cordobes Adroher, S.T. Buschhorn, K. Schulte, Technische Universität Hamburg-Harburg, Institute of Polymers and Composites, Hamburg, Germany
- 10 :50 Coffee break
- 11 :20 *Molecular Dynamics of PEGylated Multifunctional Polyhedral Oligomeric Silsesquioxane*
J. Mijović, Othmer-Jacobs Department of Chemical and Biological Engineering, Polytechnic Institute of New York University, Brooklyn, USA
- 11 :40 *Relaxation Behavior of Nanocomposites based on Polyethylene and Layered Double Hydroxide*

A. Schönhals, F. R. Costa, U. Wagenknecht, G. Heinrich, Federal Institute for Materials Research and Testing (BAM), Berlin, Germany / Borealis Polyolefine GmbH, Linz, Austria / Leibniz Institute of Polymer Research, Dresden, Germany

12 :00 *Study of reinforcement and electrical percolation in nanocomposites based on multi-wall carbon nanotubes and a TPE block-copolymer (SEBS)*

J. G. Meier, M.-P. Brusel, N. Moussaif, C. Crespo, A. Benito, W. Maser, P. Castell, Instituto Tecnológico de Aragón, Zaragoza, Spain

12 :20 *Dielectric monitoring of CNT network formation in curing thermosetting composites*

A. Battisti, A.A. Skordos, I. Partridge, Cranfield University, Composites Centre, UK.

12:40 Lunch

Chair: C. MIJANGOS CSIC Madrid (Spain) / J.P. PASCAULT IMP Université de Lyon (France)

14 :00 Invited Lecture : F. FAUREL Technische Fakultät Universitaet Kiel (Germany)

Polymer-metal nanocomposites for functional applications

14:30 *Different routes to prepare nanocomposite foams in supercritical CO₂ :Role of processing and interfacial properties*

T.T.V. Ngo, R. Arioli, J. Duchet-Rumeau, J.F. Gérard, Université de Lyon/INSA Lyon, UMR #5223 CNRS,, Ingénierie des Matériaux Polymères, Villeurbanne, France.

14 :50 *Clay Nanocomposites in Hydrocarbon Polymers: from nanostructures to material properties*

M. Galimberti, S. Giudice, P. Riccio, L. Giannini, V. Cipolletti, G. Guerra, Pirelli Tyre SpA, Milano, Italy

15:10 *Modification of isoprene rubber by in-situ silica generation*

M. Messori, F. Bignotti, R. De Santis, R. Taurino, Università degli Studi di Modena e Reggio Emilia – Dipartimento di Ingegneria dei Materiali e dell’Ambiente, Modena, Italy / Università degli Studi di Brescia – Dipartimento di Ingegneria Meccanica e Industriale, Brescia, Italy

15:30 *Liquid sensing properties of melt processed polymer - carbon nanotube composites*

P. Pötschke, T. Villmow, K. Kobashi, T. Andres, H. Brünig, L. Häußler, D. Fischer, Leibniz-Institut für Polymerforschung Dresden e. V., Germany

15:50 *Thermodegradative and morphological behaviour of composites HDPE with surface treated hydroxyapatite*

C. Albano, L. Cataño, R. Perera, A. Karam, G. González, Laboratorio de Polímeros, Centro Química, Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela

16:10 *Biodegradation of PLA and PCL nanocomposites*

D. Tabuani, K. Fukushima, G. Camino, C. Abbate, M. Gennari Consorzio Proplast, Alessandria / INSTM-Polytechnic of Turin, Alessandria branch, Alessandria / Università di Catania, Catania, Italy

16 :30 Coffee break

17:20 Poster Session

20:00 Conference Dinner during a bateau-mouche trip on Seine River

FRIDAY APRIL 18th

Chair: A. TCHARKTCHI (ENSAM ParisTech Paris) / G. BOITEUX IMP Université de Lyon (France)

9:00 Invited Lecture : R. IDEN Senior Vice President BASF Ludwigshafen (Germany)

Implementing the SusChem Research Agenda for Nanostructured Materials

9:30 *Poly(methylpentene)-silica nanocomposites*

A. Pegoretti, A. Dorigato, Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy

9:50 *Comparison of the fracture toughness and creep behaviour of PMMA composites containing chopped carbon fibers versus carbon nanofilaments*

H. Varela-Rizo, M. Weisenberger, D. R. Bortz, I. Martin-Gullon, Chemical Engineering Department, University of Alicante. 03690 Alicante, Spain

10:10 *Physical properties of polylactic acid blown films containing halloysite nanotubes*

P. Russo, D. Acierno, S. Cammarano, Department of Materials and Production Engineering – Univ. of Naples “Federico II”, Naples, Italy

10:30 *The effect of nanosilica spherical particles dimension on the polyamide 6 composites properties*

R. Jeziórska, B. Świerz-Motysia, M. Zielecka, Industrial Chemistry Research Institute, Warszawa, Poland

10 :50 **Coffee break**

11:20 *Multiscale modeling applied to polymer-clay nanocomposites*

A. Danani, G. Scocchi, P. Posocco, S. Pricl, M. Fermeglia, SUPSI-ICIMSI, Manno, Switzerland

11:40 *Novel nanophasic amphiphilic polymer conetworks as new material platform for speciality nanohybrids*

B. Iván, C. Fodor, P. Mezey, G. Kali, A. Domján, R. Thomann, R. Mülhaupt, Department of Polymer Chemistry and Material Science, Institute of Materials and Environmental Chemistry, Chemical Research Center, Hungarian Academy of Sciences, Budapest, Hungary/ Freiburger Materialforschungszentrum und Institut für Makromolekulare Chemie, Albert-Ludwig-Universität Freiburg, Freiburg, Germany

12:00 *Use of Copolymer nanotechnologies to tailor applicative properties of thermosets and composites*

R. Inoubli, R. Barsotti, T. Fine, P. Gerard and J.P. Pascault, Arkema Co., Lacq, France

12:20 *Synthesized linear and star block copolymers and terpolymers based on Polystyrene under tension and compression: Tailoring of molecular parameters to mechanical behaviour*

G. Tsoukleri, G. Linardatos, J. Parthenios, C. Galiotis and C. Tsitsilianis, Institute of Chemical Engineering and High Temperature Chemical Processes, Foundation of Research and Technology-Hellas (FORTH/ICE-HT), Patras, Greece / Interdepartmental Programme in Polymer Science and Technology, University of Patras, Greece / Materials Science Department, University of Patras, Greece / Department of Physics and Astronomy, Manchester University, Manchester, UK

12:40 **Lunch**

Chair: S. RUSSO Genoa University (Italy) / P. CASSAGNAU Université de Lyon (France)

14 :00 Invited Lecture : U. WEISNER Cornell University (USA)

Merging Polymer Science with Inorganic Chemistry into Nanostructured Materials

14:30 *New Polyurethane Nanocomposites Containing Different Nanofillers With Enhanced Benefits*

- S. A. Madbouly, J.U. Otaigbe, The University of Southern Mississippi, School of Polymers and High Performance Materials, Hattiesburg, USA.
- 14:50 *Evidence of polyolefins/clay molecular interactions at the interface of nanocomposites*
S. Coiai, M. Bertoldo, E. Taburoni¹, E. Passaglia, F. Ciardelli, Department of Chemistry and Industrial Chemistry, University of Pisa, Pisa, Italy.
- 15:10 *Developments of nanocapsules prepared by interfacial supramolecular reaction in miniemulsion*
S. Adjili, A. Djili, F. Ferrand, F. Lortie, D. Portinha, N. Sintès-Zydowicz, Université de Lyon/Université Lyon 1-INSA Lyon, UMR #5223 CNRS, Ingénierie des Matériaux Polymères, Villeurbanne, France
- 15:30 *Polymer/metal hybrid membranes : from in situ nanostructuring process to modulated functional properties*
S. Clémenson, E. Espuche, L. David, Université de Lyon/Université Lyon 1, UMR #5223 CNRS, Ingénierie des Matériaux Polymères, Villeurbanne, France
- 15:50 *Plastic Fiber Optic pH Sensors Based on Organic-Inorganic Sol-Gel Hybrids Entrapping Sensitive Dyes*
P. Fabbri, F. Pilati, L. Rovati, Dipartimento di Ingegneria dei Materiali e dell'Ambiente/
Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Modena e Reggio Emilia, Italy
- 16:10 *Hydrothermal ageing of epoxy resins reinforced with carbon nanofibers: applications as adhesives*
S. G. Prolongo, M. R. Gude, A. Ureña, Dpt. Ciencia e Ingeniería de Materiales Universidad Rey Juan Carlos. Madrid, Spain
- 16 :30 [Closing Session](#)

SELECTED PAPERS FOR POSTER PRESENTATIONS

A Theoretical Study on the Electronic, Optical, and Morphological Properties of the Polypyrrole-based Nanostructures

D. Aksoy, E. Yildirim, M. Yurtsever, Istanbul Technical University, Faculty of Science and Letters
Department of Chemistry, Istanbul, Turkey.

Self-Organized PS-b-PLA Block Copolymers: Synthesis, Orientation, and Use as Precursors to Functional Mesoporous Polymers

T. Antoun¹, B. Gorzolnik, P. Davidson, I. Beurroies, R. Denoyel, D. Grande, Institut de Chimie et des Matériaux Paris-Est, CNRS – Université Paris XII, Thiais, France.

Layered silicate composites of polypyrrole-polydimethylsiloxane block copolymers

E. Ateş, N. Kızılcan, Faculty of Science and Letters, Department of Chemistry, Istanbul Technical University, Istanbul, Turkey.

Carbon nanotubes / polylactid acid blends: new nanocomposite textile fibers for the vapour detection

C. Aubry, C. Campagne, M. Rochery, E. Devaux, Laboratoire de Génie et Matériaux Textiles (GEMTEX), Ecole Nationale Supérieure des Arts et Industries Textiles (ENSAIT), Roubaix, France.

The life cycle analysis of the new synthesized polymer-amine derivative of phenol-formaldehyde resin

W. M. Bajdur, Department of Technical Systems and Safety Work, Czestochowa University of Technology, Poland

Improved Mechanical and Thermal Properties of Polyurethane Nanocomposite Coatings for Automotive Application

M.A. Bahattab, A.A. Basfar, K.M. Idriss Ali, M. A. Alam, Polymer Center, Petroleum & Petrochemical Res. Inst, KACST, Riyadh, South Arabia

Electrospun Crosslinked Hydrogel Microactuators

M. Bassil, M. Ibrahim, M. El Tahchi, S. Lanceros-Mendez, G. Boiteux, J. Davenas, LPA-GBMI, Department of Physics, Lebanese University -Faculty of Sciences II, PO Box 90656 Jdeidet, Lebanon /Université de Lyon, Lyon, Université Lyon 1, IMP and LMI, Villeurbanne, France / Department of Physics, University of Minho, Braga, Portugal.

Nano- and microcapsules based on segmented polyurethanes for tuberculosis treatment by respiratory administration

E.O. Batyrbekov, R.M. Iskakov, M. Kim, B.A. Zhubanov, Institute of Chemical Sciences, 106 Valikhanov Str. Almaty, Kazakhstan

Nanocomposites materials containing cellulose microfibrils: Preparation and characterization

A. Bendahou, H. Kaddami, A. Dufresne, The International School of Paper, Print Media, and Biomaterials (Grenoble INP-Pagora), St. Martin d'Hères, France / Cadi Ayyad University, Laboratory of Bioorganic and Macromolecular Chemistry – Faculty of Sciences and Technology Guéliz, Marrakech, Morocco.

Functionalization of Graphene Sheets through CF₄ Plasma Treatment and Subsequent Modification with Aliphatic Amines

S. Bittolo Bon, L. Valentini, R. Verdejo, M. M. Bernal, M. A. Lopez-Manchado, J. M. Kenny, Civil and Environmental Engineering Department, University of Perugia, INSTM - NIPLAB, UdR Perugia, Terni, Italy / Institute of Polymer Science and Technology, (CSIC), Madrid, Spain.

Carbon nanotubes and in-situ formed nanofibers in polypropylene

B. Bodzay, K. Bocz, A. Toldy, B. B. Marosfői and G. Marosi, Budapest University of Technology and Economics, Department of Organic Chemistry and Technology / Department of Polymer Engineering, Budapest, Hungary.

Chemical modification of multi-walled carbon nanotubes with 2-hydroxyethylmethacrylate

Yu.M. Bolbukh, G.S. Gunko, G.P. Prikhod'ko, V.A. Tertykh, O.O. Chuiko, Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Kyiv, Ukraine.

Preparation and characterization of Pt/NaY-PVDF nanocomposites

G. Botelho, I.C. Neves, A.M. Fonseca, M. Silva, R. Gonçalves, P. Martins, S. Lanceros Mendez, Dep. Química / Dep. Física, Universidade do Minho, Campus de Gualtar, Braga, Portugal

Intrinsically conducting composite films obtained in environmental friendly for chemical sensors

M. Bouhadid, N. Redon, J. Desbrières, S. Reynaud, Ecole des Mines de Douai, 941, rue Charles Bourseul, Douai, France / EPCP-IPREM UMR 5254(CNRS/UPPA), Pau, France

Organosoluble and reactive nanoparticles ready for nanocomposite

A. Aboulaich, B. Boury, P.H. Mutin, Institut Charles Gerhardt - UMR 5253 CNRS - CMOS - Université Montpellier 2, Place E. Bataillon, Montpellier, France.

In-situ intercalative polyamidation of PA n,6 nanocomposites

A. C. Boussia, S. N. Vouyiouka and C. D. Papaspyrides, Laboratory of Polymer Technology, School of Chemical Engineering, National Technical University of Athens, Athens, Greece.

Chemical Polymerization of Pyrrole on Magnetite Substrate

D.V. Brezoi, Valahia University, Targoviste, Romania.

A novel organic/inorganic hybrid system nanoparticles-based for solar photochemical energy conversion

R.M. Ion, D.V. Brezoi, A. Catangiu, R.C. Fierascu, Valahia University, FIMMR, Targoviste, Romania / ICECHIM, Bucharest, Romania.

Isothermal evolution of the conductivity of poly(methyl methacrylate)/multi-walled carbon nanotubes composites

A.C. Brosse, S. Tencé-Girault, P. M. Piccione, L. Leibler, MMC UMR 7167, ESPCI, Paris / ARKEMA, Groupement de Recherches de Lacq, Lacq, France

Piezoresistive Epoxy/CNT-Nanocomposites: Processing, Characterization and Applications

S. T Buschhor, M.H G Wichmann, J. Sumfleth, K. Schulte, Technische Universität Hamburg-Harburg, Institute of Polymers and Composites, Hamburg, Germany

Thermal and electrical properties of carbon nanotube reinforced cyanate ester polymer

V. Calard, A. Vavouliotis, S. Forero, L. Pambaguian, Austrian Research Centers GmbH - ARC, Advance Aerospace Composites, Austria / University of Patras, Applied Mechanics Laboratory, Greece /Future Carbon GmbH, Germany / European Space Agency, ESTEC, The Netherlands.

Impact properties of nanocomposites based on modified polypropylene

M. Ladra, J. Cano, A. Torres, S. García-Pardo, C. Ramírez,, Grupo de Polímeros. Universidad de A Coruña, Ferrol. Spain.

Rheology of polydimethylsiloxane / carbon nanotubes

S. Marceau, Ph Dubois, R. Fulchiron, Ph Cassagnau, Center of Innovation and Research in Materials & Polymers (CIRMAP), Laboratory of Polymeric and Composite Materials, University of Mons-Hainaut, Mons, Belgium / Université de Lyon 1, CNRS UMR5223, Ingénierie des Matériaux Polymères, Villeurbanne, France.

Nanomechanical and electrical characterization of a carbon nanofiber/epoxy composite

R. Chaos-Morani, M.D. Escalera, A. Ureña, J.M. Kenny, Science and Engineering of Materials, Rey Juan Carlos University, Móstoles, Madrid, Spain / Civil and Environmental Engineering Department, NIPLAB-INSTM University of Perugia, Terni, Italy

UV-cured Nanocomposites by Simultaneous Sol-gel Process and Cationic Photopolymerization

A. Chemtob, D.L. Versace, C. Belon, C. Croutxé-Barghorn, S. Rigolet, Department of Photochemistry, CNRS UMR 7525 / Laboratoire de Matériaux à Porosité Contrôlée, CNRS UMR 7016 University of Haute-Alsace, ENSCMu, Mulhouse, France

Innovative Processing of high performance nanostructured polymers thin films and nanocomposite coatings

K.L. Choy, X. Hou, Faculty of Engineering, Department of Mechanical, Materials and Manufacturing Engineering, The University of Nottingham, University Park, Nottingham, United Kingdom.

Natural ageing of polyethylene-carbon black sheaths used as protective barrier in cable-stayed bridges

J. Tireau, L. Vouyovitch Van Schoors, K. Benzarti, X. Colin, LCPC / Arts et Métiers ParisTech, LIM, Paris, France

Metal nanoparticles deposited on multiple wall carbon nanotubes (MWCNT) by atmospheric plasma treatment.

N. Claessens, F. Demoisson, J. Guillot, J.J. Pireaux, F. Reniers, Université Libre de Bruxelles (ULB), Faculté des Sciences, Service de Chimie Analytique et Chimie des Interfaces, Bruxelles, Belgium/ Institut Carnot de Bourgogne, Nanosciences Department-MaNaPI team, Dijon, France / Centre de Recherche Public-Gabriel Lippmann, Département Science et Analyse des Matériaux (SAM), Belvaux, Luxembourg / University of Namur (FUNDP), Research center in Physics of Matter and Radiation (PMR), Namur, Belgique.

Organic-Inorganic photocured thiol-ene nanostructured coatings

G. Colucci, M. Sangermano, Politecnico di Torino Dipartimento di Scienza dei Materiali e Ingegneria Chimica, C.so Duca degli Abruzzi 24, 10129, Torino, Italy

Effect of level of ceramic nanofillers on the mechanical and thermal behaviour of PLA and PLGA composites materials for medical implants

B. Damadzadeh, H. Jabari, K. Airola, M. Skrifvars, School of Engineering, University of Borås, Borås, Sweden

Polymer / Metallic Nanowires Composites: Electrical Conduction versus Composition

A. Lonjon, L. Laffont, P. Demont, E. Dantras, C. Lacabanne, Laboratoire de Physique des Polymères, CIRIMAT, Université Paul Sabatier / ENSIACET, CIRIMAT, Toulouse, France

POSS modified Polycarbonate Urea-Urethane Elastomers for Biomedical Applications

A. Darbyshire, R. Bakshi, A.M. Seifalian, Centre for Nanotechnology, Biomaterials & Tissue Engineering, UCL Division of Surgery & Interventional Science, University College London (UCL), London, UK

Influence of dry thermal cure on compressive strength of high performance binder incorporating nano-silica

F.A. de Souza, Department of Structure – DE - School of Civil Engineering, Architecture and Urban Design- FEC - State University of Campinas – UNICAMP, Brazil

Development and Characterization of Carbon Nanotube Based PEEK Composites

A Diez-Pascual, M. Gómez, G.Ellis, C. Marco, G. Martinez and M. Naffakh, Institute of Polymer Science and Technology, CSIC, Spain

Combining carbon nanotubes and silver nanoparticles for multifunctional conductive and antibacterial polymer based nanocomposites

M.Dottori, I.Armentano, E.Fortunati, J.M.Kenny, Interuniversity Consortium National Institute of Biostructures and Biosystems I.N.B.B. at Material Engineering Centre /Materials Engineering Center, UdR INSTM, NIPLAB, University of Perugia, Italy

Effects of compatibilizer structure on the clay dispersion and barrier properties of polyethylene/clay nanocomposite films

A. Durmus, N. Ercan, G. Soyubol, A. Kasgoz, I. Aydin, Istanbul University, Department of Chemical Engineering, Istanbul, Turkey

Rheological and barrier properties of polyethylene/clay nanocomposites compatibilized by an oxidized polyethylene blend

A. Durmus, N. Ercan, G. Soyubol, A. Kasgoz, I. Aydin, Istanbul University, Department of Chemical Engineering, Istanbul, Turkey

Simulation studies of transparent nanocomposites: embedded LaF₃ and LaPO₄ nanoparticles in poly (methyl methacrylate) for X-ray attenuation.

F. El Haber, C. Andraud, X. Rocquefelte, G. Froyer, Institut des Matériaux Jean Rouxel, UMR6502 CNRS, University of Nantes, Nantes / Physique des Matériaux et Nanostructures (PMN) - Matériaux Innovants pour l'Optique et le Stockage (MIOPS) Institut des Nanosciences de Paris (INSP) UMR-CNRS 7588, Université Pierre et Marie Curie, Paris, France.

Differential scanning calorimetry analysis of poly(3-hydroxybutyrate) nanocomposites

M. Erceg, T. Kovačić, I. Klarić, Faculty of Chemistry and Technology, Department of Organic Technology, Split, Croatia

Visualization of the flow in a screw/barrel system: Real-time monitoring of polymer-clay mixing

A. Esposito, J. Balcaen, J.Y. Charneau, J. Duchet-Rumeau, Ingénierie des Matériaux Polymères UMR 5223 CNRS, Université de Lyon, INSA Lyon, Villeurbanne, France

Polymer/metal hybrid membranes : from in situ nanostructuration process to modulated functional properties

S. Clémenson, E. Espuche, L. David, UMR5223, Ingénierie des Matériaux Polymères, Université de Lyon, Université Lyon 1, Villeurbanne, France

Effect of adsorbed moisture on thermal physical properties of epoxy/CNT nanocomposites

V.L. Dragun, L.E. Evseeva, S.A. Tanaeva, Heat & Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus

Structure and dielectric properties of hybrid organic-inorganic nanocomposites based on silsesquioxane

A.O. Fomenko, V.V. Klepko, Yu.P. Gomza, M.A. Gumenna, V.V. Shevchenko, Institute of Macromolecular Chemistry, Kiev, Ukraine

Biodegradable polymer nanocomposite containing silver nanoparticles: material properties and antibacterial activity

E. Fortunati, I. Armentano, S. Rinaldi, L. Latterini, F. Elisei, J.M. Kenny, Materials Engineering Center, UdR INSTM, NIPLAB / Department of Chemistry and CEMIN, University of Perugia, Perugia, Italy

Flammability properties of Zr-phosphate based nanocomposites

A. Frache, J. Alongi, G. Camino, Dipartimento di Scienza dei Materiali e Ingegneria Chimica, Politecnico di Torino sede di Alessandria, Alessandria, Italy.

Nanocomposite elastomers with in situ formed silica

M. Galimberti, M. Sestito, G. Lampignano, F. Negroni, M. Arimondi, L. Conzatti, Pirelli Tyre SpA, Milano / Pirelli Labs, Milano / ISMAC-C.N.R., Genova, Italy

Synergic effect of small and high molecular weights of Polyamide-6 on the nanostructured morphology of Polyethylene and Polyamide-6 blend

L. Gani, S. Tencé-Girault, M. Milléquant, S. Bizet, L. Leibler, Matière Molle et Chimie (ESPCI-CNRS, UMR 7167), ESPCI, Paris / ARKEMA, CERDATO, Serquigny, France

Chemical modification of inorganic surfaces by microwave assisted reactions

N. García, E. Benito, J. Guzmán, P. Tiemblo. Instituto de Ciencia y Tecnología de Polímeros (CSIC), Madrid. Spain.

Computational design of functionally graded polymeric foams

S. Kiernan, L. Cui, M.D. Gilchrist, Mechanical Engineering, University College Dublin, Belfield, Dublin, Ireland

Influence of block-copolymers morphologies on the toughness of thermosetting systems used in the aeronautical composites industry

F. Gille, F. Lortie, J.F. Gérard, J.P. Pascault, S. Bechtel, R. Inoubli, Université de Lyon, UMR 5223 CNRS, Ingénierie des Matériaux Polymères Macromoléculaires, Villeurbanne / EADS Innovation Works, Composites technologies Materials & Processes, Suresnes / ARKEMA, Centre de recherche LACQ, Lacq, France

Bionanocomposites based on polyester-grafted polysaccharide nanocrystals: reinforcement of mechanical properties

A.L. Goffin, N. Schiltz, Y. Habibi, E. Duquesne, A. Dufresne, Ph. Dubois, Laboratory of Polymeric and Composite Materials, Center of Innovation and Research in Materials and Polymers CIRMAP, University of Mons, Mons, Belgium / Ecole Française de Papeterie et des Industries Graphiques, Institut National Polytechnique de Grenoble (EFG-INPG) Saint-Martin d'Hères, France

Temperature-dependent behavior of low and high molecular weight fractions of the thin P3HT films

S. Grigorian, S. Joshi, T. Panzner, U. Pietsch, P. Pingel, D. Neher, M. Foster, U. Scherf, Institute of Physics, University of Siegen, Siegen / Institute of Physics, University of Potsdam, Potsdam / Macromolecular Chemistry, University of Wuppertal, Wuppertal, Germany

Mechanical and moisture barrier properties of thermoformed wheat gluten/montmorillonite nanocomposite materials : influence of filler content

H. Angellier-Coussy, V. Guillard, N. Gontard, E. Gastaldi, Unité Mixte de Recherche, Ingénierie des Agropolymères et Technologies Emergentes, INRA/SupAgro'M/UMII/CIRAD, Université Montpellier II, Montpellier, France

Dielectric properties of natural rubber-clay nanocomposites

M. Hernández, M.A. López-Manchado, T.A. Ezquerro, J. Carretero-González, Universidad Simón Bolívar, Departamento de Mecánica, Caracas 1080A, Venezuela / Instituto de Ciencia y Tecnología de Polímeros, CSIC, Madrid, Spain / Instituto de Estructura de la Materia, CSIC, Madrid, Spain

Nanocomposites of EPDM/EPGM-g-MA/clay: Rheological properties

M.N. Ichazo, M. Hernández, C. Rosales, K. Nuñez, Universidad Simón Bolívar, Departamento de Mecánica, Caracas, Venezuela

Relaxation phenomena in hybrid organic-inorganic polymer systems modified with collagen polymerized in situ.

M. Iurzhenko, Ye. Mamunya, G. Boiteux, G. Seytre, E. Lebedev, Institute of Macromolecular Chemistry of National Academy of Sciences of Ukraine, 48 Kharkivske chaussee, Kyiv 02160, Ukraine / Université de Lyon, Lyon, Université Lyon 1, Ingénierie des Matériaux Polymères UMR5223 CNRS IMP, Villeurbanne, France

Synthesis of nanostructured hydroxyapatite filler for HAP/polymer nanocomposite

Dj. Janackovic, P. Uskokovic, R. Petrovic, I. Balac, B. Jokic, Dj. Veljovic, I. Jankovic-Castvan, Z. Radovanovic, Faculty of Technology and Metallurgy / Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia

Self-assembly of polypeptide-surfactant complexes: Effect of surfactant branching and chain length

S. Junnila, S. Hanski, R. Oakley, C. Faul, O. Ikkala, Department of Applied Physics, Helsinki University of Technology, Finland / School of Chemistry, University of Bristol, Bristol, United Kingdom

Preparation and Characterization of a Biodegradable Poly(p-dioxanone)/Sepiolite Nanocomposites

K.K. Yang, Z.C. Qiu, Y. Zhou, J.J. Zhang, Y.Z. Wang, Center for Degradable and Flame-Retardant Polymeric Materials (ERCEPM-MoE), College of Chemistry, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu, China

The role of intercalants on structure and properties of PP/halloysite nanocomposites

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Monitoring the changes in critical properties of nanoclay-reinforced PA6 during artificial aging

P. Kiliaris, C.D. Papaspyrides, R.Pfaendner, Laboratory of Polymer Technology, School of Chemical Engineering, National Technical University of Athens, Greece / Ciba Lampertheim GmbH, Chemiestraße, Lampertheim, Germany

Dispersability of carbon nanotubes in aqueous surfactant dispersions in dependence on ultrasonic treatment

B. Krause, M. Mende, G. Petzold, P. Pötschke, Leibniz Institute of Polymer Research Dresden, Dresden, Germany

Properties of unmodified LDPE/organosilicate nanocomposites

A.Giannakasi, G. Karadimos, K. Beltsios, A. Ladavos, School of Natural Resources and Enterprise Management / Department of Materials Science & Technology, University of Ioannina, Ioannina, Greece

The influence of organo-clay on dispersion and electrical properties of PP/MWCNT/clay nanocomposites

L. Volodymyr, Ye. Mamunya, G. Boiteux, N. Lebovka, J. Ulanski, L. Okrasa, E. Lebedev, G. Seytre, Institute of Macromolecular Chemistry, Kyiv, Ukraine / Université de Lyon, Lyon, Université Lyon 1, CNRS, UMR5223, Ingénierie des Matériaux Polymères, Villeurbanne, France / Institute of Biocolloidal Chemistry named after F.D. Ovcharenko, NAS of Ukraine, Kyiv, Ukraine / Technical University of Lodz, Department of Molecular Physics, Lodz, Poland

Smectic Polymer Vesicles

M.N. Li, Institut Curie, Centre de Recherche, CNRS UMR168, Université Pierre et Marie Curie, Paris, France

The influence of ionic liquid and nanoclay on the physical properties of a polyethylene

S. Livi, J. Duchet, J.F. Gérard, Université de Lyon - INSA Lyon, CNRS UMR5223, Ingénierie des Matériaux Polymères, Villeurbanne, France

Application of multiscale gradient model for descriptions of effective mechanical and dynamic properties of nanocomposites

S. Lurie, N. Tuckov, D.Volkov-Bogorodsky, M. Toksanbaev, Institute of Appl. Mech. of Russian Acad. Scs / Dorodnicyn Comp. Centre of Russian Acad. Scs / National Institute of Aviation Technology, Moscow, Russia

Preparation and Characterization of High Molecular Weight Atactic Poly(vinyl alcohol)/Clay Nanocomposites by Electrospinning

W.S. Lyoo, Y.J. Lee, J.W. Cha, E.J. Lee, Y.S. Chung, S.S. Han, S.K. Noh, Division of Advanced Organic Materials, School of Textiles, Yeungnam University, Gyeongsan / Department of Textile Engineering, Chunbuk National University, Jeonju / School of Display and Chemical Engineering, Yeungnam University, Gyeongsan, Korea

Preparation of Poly(vinyl pivalate/vinyl acetate) Particles Using Emulsion Copolymerization of Vinyl Pivalate and Vinyl Acetate

W.S. Lyoo, W.W. Jeong, K.I. Oh, Y.S. Kim, Y.S. Gal, S.C. Kim, H.Y. Jeon, Division of Advanced Organic Materials, School of Textiles, Yeungnam University, Gyeongsan / Department of Knit Design, College of Textile & Fashion Polytechnic, Daegu/ Polymer Chemistry Laboratory, College of Engineering, Kyungil University, Gyeongsan / Division of Nano-Systems Engineering, Inha University, Incheon, Korea

Towards Organized Cellulose-Based Nanocomposite Materials Using Grafting Strategies with Cellulose Nanocrystals

J. Majoinen, R.H. A. Ras, A. Walther, E. Kontturi#, O. Ikkala, Helsinki University of Technology, Department of Applied Physics / Helsinki University of Technology, Department of Forest Products Technology, TKK, Finland

Mechanical properties of homogenous and non-homogenous polymers, a mesoscale approach by coarse grained molecular dynamics.

A. Makke, M. Perez, O. Lame, J.L. Barrat, Lyon university, LPMCN laboratory-UMR CNRS, 5586 / MATEIS laboratory - UMR CNRS, 5510 - Villeurbanne, France

Organic-inorganic nanocomposites based on epoxy resin and phosphotungstic acid

Ye. Mamunya, O. Matkowska, M. Shandruk, E. Lebedev, G.Boiteux, G. Seytre, Institute of Macromolecular Chemistry, Kyev, Ukraine / UMR CNRS 5223 Ingénierie des Matériaux Polymères, Université de Lyon – Université Lyon1, Villeurbanne, France

Real time Crystallization of Organoclay Nanoparticles Filled Natural Rubber Under Stretching

J. Carretero-Gonzaleza, R. Verdejoa, S. Tokib, B. S. Hsiaob, E. P. Giannelis, M. A. Lopez-Manchada, Institute of Polymer Science and Technology, CSIC Madrid, Spain / Department of Chemistry, Stony Brook University, NY, USA / Department of Material Science and Engineering, Cornell University, Ithaca, NY, USA

Final Properties Improvement of Polyethylene-Sepiolite Nanocomposites

R. Martini, S. La Tegola, A. Terenzi, S. Barbosa, J. Kenny, PLAPIQUI (UNS-CONICET), Bahía Blanca, Argentina / Materials Engineering Center, University of Perugia, Terni, Italy

Influence of the Environmental Conditions on the Response and Stability of Poly(Galacturonic) Acid/Chitosan Multilayers on Biodegradable Films

M. Marudova, T. Yovcheva, A. Viraneva, E. Gencheva, I. Vlaevaa, S. Sainova, G. Mekishev, Department of Experimental Physics, University of Plovdiv, Plovdiv / CLOSPI, Bulgarian Academy of Sciences, Sofia, Bulgaria.

Hybrid organic-inorganic coatings with excellent scratch resistance

E. Amerio, P. Fabbri, M. Messori, M. Sangermano, Politecnico di Torino, Dipartimento di Scienza dei Materiali e Ingegneria Chimica,Torino / Università degli Studi di Modena e Reggio Emilia, Dipartimento di Ingegneria dei Materiali e dell'Ambiente, Modena, Italy.

Thermal and sorption characteristics of bionanocomposites based on sepiolite and chitosan

R.Yu. Milusheva, M. Abdurazakov, M.Yu. Yunusov, S.Sh. Rashidova, Institute of chemistry and physics of polymers of the Academy of Science of Uzbekistan, Tashkent, Uzbekistan

Nanostructured polysaccharides and their effect on various strains of microorganisms

S.Sh. Rashidova, R.Yu. Milusheva, Sh.D. Maksudova, F.Kh. Inoyatova, Institute of chemistry and physics of polymers of the Academy of Science of Uzbekistan, Tashkent / Tashkent Medical Academy, Tashkent, Uzbekistan

Nanocomposites based on polymer-edge modified montmorillonite obtained by surfactant free emulsion polymerization

R. Ianchis, D. Donescu, M. Cosmin Corobea, M. Ghiurea, R. Munteanu, National Institute of Chemical and Petrochemical Research and Development – ICECHIM, Polymer Department, Spl. Independentei Romania.

Polyethylene/calcium carbonate nanocomposites: Mechanical and rheological properties

F. P. La Mantia, R. Scaffaro, M. Morreale, Università di Palermo, Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, 90128 Palermo, Italy

Development of nanocomposites based on mesoporous silicate and PCL polymer: The potential effect of organophilic clays as compatibilizer agent.

N. Moussaif, J. G. Meier, C. Crespo, Instituto Tecnológico de Aragón, Zaragoza, Spain

Water dispersions of silver nanoparticles stabilized with alternating copolymers of vinyl ethers-maleic anhydride

D. Donescu, R. Munteanu, M. Ghiurea, C. Petcu, National Research & Development Institute for Chemistry and Petrochemistry ICECHIM 202, Bucharest, Romania

Synthesis and characterization of nanocomposites ZnO-methacrylic polymers by RAFT polymerization

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Synthesis of well-defined hybrid TiO₂-nanoparticles with poly(methyl methacrylate) and poly(tert-butyl dimethylsilyl methacrylate) via the RAFT process.

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Self-assembled nanotubes : templates for mesoporous functional materials and direct functionalization.

T.T. Nguyen, F.X. Simon, M. Schmutz, P. Mesini, CNRS, Institut Charles Sadron, Strasbourg, France

Study of some POSS amphiphiles as emulsifier

T.B. Nguyen, F.X. Perrin, A. Margailan, MAPIEM Laboratory, University of Toulon, La Garde, France

Tailoring of ion exchange membranes surface to improve their properties

E. Belova, N. Melnik, G. Lopatkov, N. Pismenskaya, V. Nikonenko, C. Larchet, Yu. Karzhavin, Membrane Institute, Kuban State University, Krasnodar, Russia / JSC “Regional Interbranch Center YugTechInform”, Krasnodar, Russia / Laboratory of Ion Exchange Materials, Paris Est University, Paris, France

Nanoscale Blending of Polyamide 6 With low-Tg inorganic phosphate glass: Fact or Fiction?

Y. Meng, J.U. Otaigbe, The University of Southern Mississippi, School of Polymers and High Performance Materials, Hattiesburg, USA

Hybrid magnetic nanocomposites based on core – shell magnetic nanoparticles with polymers

O. Pana, J. Martin, M. L. Soran, R. Turcu, C. Leostean, C. Mijangos, Natl. Inst. for R&D of Isotopic and Molec. Technol., Cluj-Napoca, Romania / Instituto de Ciencia y Tecnología de Polímeros, CSIC, Madrid, Spain

Influence of the compatibilizer/nanoclay ratio on final properties of polypropylene matrix modified with montmorillonite-based organoclay

J. Pascual, E. Fages, O. Fenollar, D. García, R. Balart, Textile Research Institute (AITEX) / Institute of Materials Technology (ITM), Polytechnic University of Valencia (UPV), Alcoy (Alicante), Spain

Nanocomposites based on SBS and SIS tri-block copolymer matrices

L. Peponi, A. Tercjak, J. Gutierrez, L. Torre, I. Mondragon, J.M. Kenny, Materials Engineering Centre, University of Perugia, Terni, Italy / 'Materials + Technologies' Group, Dpto. Ingeniería Química y M. Ambiente, Universidad País Vasco - Euskal Herriko Unibertsitatea, Donostia-San Sebastián, Spain.

Confinement of CNT in the PS block of the SIS tri-block copolymer matrix

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Block Copolymers of Poly(ethylene oxide) and Poly(alkyl methacrylates)

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Modulation of the Optical Behaviour by Controlling the Dispersion Degree of (Nano-)Aggregates of Dyes into Polymer Matrices

A. Pucci, F. Donati, G. Ruggeri, F. Ciardelli, Department of Chemistry and Industrial Chemistry / INSTM, c/o DCCI / PolyLab-CNR, c/o DCCI, University of Pisa, Pisa, Italy

Effect of introduction of SBS Triblock Copolymers on the final morphology and properties of an Epoxy/DDM system

M.G. Sajeev, D. Puglia, J.M. Kenny, S. Thomas, School of Chemical Sciences, Mahatma Gandhi University, Kerala, India / Materials Engineering Centre, University of Perugia, Terni, Italy.

Effect of introduction of nanoclay on morphology and thermo mechanical property of epoxy CTBN blends

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A fracture mechanics investigation of vulcanized HNBR filled with different nanofillers

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Talc/polyester hybrid materials: Reactive extrusion preparation

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Novel Multifunctional Nanoparticle Coatings

A. Rollberg, P. Uhlmann, M. Stamm, Leibniz Institute of Polymer Research Dresden, Dresden, Germany

Dispersion of rare earth ion doped LaF₃ nanoparticles into epoxy UV curable resin: film preparation and characterization

I. Roppolo, M. Sangermano, M.P. Andrews, Dipartimento di Scienza dei Materiali e Ingegneria Chimica, Politecnico di Torino, Torino, Italy / Department of Chemistry, McGill University, Montreal, Quebec, Canada

PP/EVA nanocomposite blends

C. Rosales, J. Palacios, R. Perera, M. Matos, Dep. de Mecánica, Universidad Simón Bolívar. Caracas, Venezuela

Nanocomposites of PP/mPE blends

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Preparation and thermal characterization of the metallorganic polymer FeII(4-octadecyl-1,2,4-triazole)₃(ClO₄)_n

M. Rubio, D. López, Instituto de Ciencia y Tecnología de Polímeros, CSIC, Madrid, Spain

Silicon nanowires/polymer composites as active material for hybrid solar cells

A. Rybak, J. Davenas, A. Brioude, D. Cornu, Ingénierie des Matériaux Polymères UMR 5223 CNRS / Laboratoire des Multimatériaux et Interfaces, UMR 5615 CNRS - Université Lyon 1, Université de Lyon, Villeurbanne, France

Electrical Resistivity of Polymer/nanocarbon Composite and Sandwich Free Standing Films, Synthesized Through an "Inverse Stamping" Method

I. Sandu, I. Morjan, I. Voicu, R. Alexandrescu, F. Dumitrache, L. Gavrilă-Florescu, C. T. Fleacă, I. Soare, C. Luculescu, E. Popovici, M. Ploscaru, E. Dutu, National Institute for Lasers, Plasma and Radiation Physics, Bucharest, Romania

Highly ordered PVA/ Bentonite nanocomposites: Effect of matrix properties on the orientation of inorganic layers

A.A. Sapalidis, F.K. Katsaros, Th.A. Steriotis, N.K. Kanellopoulos, Institute of Physical Chemistry, N.C.S.R. Demokritos, Attikis, Greece

Controlled dispersion of Carbon Nanotubes through amphiphilic block copolymers: Elaboration of Polymer Nanocomposite

C. Semaan, G. Pecastaings, A. Soum, Laboratoire de Chimie des Polymères Organiques, Université Bordeaux I – ENSCPB – CNRS, Pessac, France

Preparation and characterization of biodegradable composites

K. Boumerdassi, A. Serier, Z. Aissani, Laboratoire des revêtements, matériaux et environnement, Université M'hamed Bougara Boumerdes, Algérie

Rheological and mechanical performance of low density polyethylene/ethylene-vinyl acetate/organoclay nanocomposites

A. Behradfar, A. Shojaei, N. Sheikh, Chemical and Petroleum Engineering Department, Sharif University of Technology / Nuclear Science & Technology Research Institute (NSTRI), Radiation Applications Research School, Tehran, Iran

Radical grafting of polyolethylene onto MWCNTs by reactive extrusion: a model compound approach

S. Akbar, E. Beyou, P. Cassagnau, P. Chaumont, Université de Lyon, Lyon - Université Lyon 1, CNRS UMR5223, Ingénierie des Matériaux Polymères, Villeurbanne, France

Continual adhesion model of the solid bodies and of the media with nanostructures

J.Soliaev, S. Lurie, N. Tuchkova, Institute of Appl. Mech. of Russian Acad. Scs / Dorodnicyn Comp. Centre of Russian Acad. Moscow, Russia

Nanostructure of poly(methyl methacrylate)-clay nanocomposites: Effect of incorporation of acrylic acid

B. Guenther Soares, A. dos Anjos, K. Dahmouche, Macromolecular Institute – Federal University of Rio de Janeiro / University of Zona Oeste (UEZO), Rio de Janeiro, Brazil

Relaxation phenomena modelling on Time Domain Reflectometry

A. Soualmia, M. Abdelguerfi, O. Allouane, Laboratoire de Physique des Matériaux- Equipe Spectroscopie Diélectrique, Faculté de Physique, Alger, Algeria

Thermo-mechanical and rheological properties of nanoclays and carbon nanotubes additivated epoxy resins

A. Stan, I. Dinca, A. Stefan, Z. Vuluga, L. Gavrilă-Florescu, I. Voicu, D. Donescu, L. Dumitrache, G. Prodan, National Institute for Aerospace Research “Elie Carafoli”, Bucharest / National Institute for Lasers, Plasma and Radiation Physics, Bucharest / Institute of Chemical Research, Bucharest / Ovidius University of Constanta, Constanta, Romania

Optical characterization of nanostructured polymers for OLED application

C. Defranoux, J.B. Piel, J.L. Stehle, SOPRALAB Co., Courbevoie, France

Ellipsometric Porosimetry : Fast and Non Destructive Method of Porosity Characterization Of nano structured Porous Thin Films.

A. Bourgeois, C. Defranoux, J.P. Piel, J.L. Stehle, SOPRALAB Co., Courbevoie, France

Stability and magnetic properties of cobalt nanoparticles covered by a polymer chitosan molecule

P. Tereshchuk, Sh.I. Mamatkulov, N.N. Turaeva, S.Sh. Rashidova, Institute of Nuclear Physics, Heat Physics Department, Institute of Chemistry and Physics of Polymers, Uzbekistan

Graphene nanocomposite under tension and compression: Investigation of the 2D Raman band

G.Tsoukleri, J. Parthenios, K. Papagelis, R. Jalil, A.K. Geim, K.S. Novoselov, C. Galiotis, Institute of Chemical Engineering and High Temperature Chemical Processes, Foundation of Research and Technology-Hellas (FORTH/ICE-HT), Patras, Greece / Interdepartmental Programme in Polymer Science and Technology, University of Patras, Greece / Materials Science Department, University of Patras, Greece / Department of Physics and Astronomy, Manchester University, Manchester, UK

Silver nanoparticles formation peculiarities in aqueous solution of Na-Carboxymethylcellulose (Na-CMC) at photo-irradiation

Sarimsakov A.A., Oksengendler B.L., Turaeva N.N., Yunusov Kh., Institute of polymer chemistry and physics, Tashkent, Uzbekistan

Preparation and characterization of carbon nanotubes/phenoxy nanocomposite

P. Van Velthem, A.-C. Baudouin, D. Daoust, D. Dumont, F. Cordenier, C. Bailly, F. Hubin, I. Huynen, M.

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Effect of the functionalization on PA6,6-CNF nanocomposites

D.R. Bortz, I. Rodriguez-Pastor, H. Varela-Rizo, I. Martin-Gullon, Chemical Engineering Department, University of Alicante, Alicante, Spain

Effect of functionalization on the dispersion and functional properties of CNF/PMMA composites

H. Varela-Rizo, B. Nogueira, G. Montes de Oca, I. Rodriguez-Pastor, I. Martin-Gullon, Chemical Engineering Department, University of Alicante. Alicante, Spain

Ordered magnetopolymer composites grown on anodized Al templates

M. Vázquez, W.O. Rosa, A. Asenjo, J. Martin, C. Mijangos, Institute of Materials Science of Madrid/ Institute of Science and Technology of Polymers, CSIC. Madrid. Spain

Effect of nanoclay fraction on the interfacial and rheological properties of polyethylene/polyamide blends

J. Ville, J. Huitric, P. Mederic, M. Muan, T.Aubry, Laboratoire d'Ingénierie des Matériaux de Bretagne, Equipe de Rhéologie EA 4250, Université Européenne de Bretagne, UBO, Brest, France

Preparation of Metallic Nanostructure Arrays by Block Copolymer Self-Assembly

L. Wang, R. Pugin, H. Heinzemann, P. Hoffmann, F. Montagne, Centre Suisse d'Electronique et de Microtechnique SA, Neuchâtel / Ecole Polytechnique Fédérale de Lausanne, Laboratoire d'Optique Appliqué, Lausanne, Switzerland

Preparation and Characterization of Poly(Lactic Acid)/Rectorite Nanocomposites

B. Li, X.L. Wang, Y.Z. Wang, Center for Degradable and Flame-Retardant Polymeric Materials, Key Laboratory of Green Chemistry and Technology (MoE), College of Chemistry, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu, China

Pectin/Chitosan Multilayers on Different Polymer Films

T. Yovcheva, M. Marudova, A. Viraneva, E. Gencheva, I. Vlaeva, S. Sainova, G. Mekishev, Department of Experimental Physics, University of Plovdiv / CLOSPI, Bulgarian Academy of Sciences, Sofia, Bulgaria.

Polymer nanocomposites containing fullerene C60 nanofillers

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Synthesis and characterization of polycyanurate / MWCNTs nanocomposites

Liubov Bardash, Alexander Fainleib, Gisèle Boiteux, Gérard Seytre, Olga Grigoryeva, Institute of Macromolecular Chemistry of the National Academy of Sciences of Ukraine, Kiev, Ukraine, Ingénierie des Matériaux Polymères, Université Lyon 1, France

Tracing of polypropylene with Eu-doped Gd₂O₃ luminescent nanoparticles for automatic sorting of plastic wastes

Feliks BEZATI, Mael LE BER, Nicolas CROWTHER, Valérie MASSARDIER, Ingénierie des Matériaux Polymères, INSA de Lyon, Laboratoire de Physico-Chimie des Matériaux Luminescents, Université Lyon 1, Nano-H SAS, 38070 Saint Quentin-Fallavier, France

Hybrid organic-inorganic polyester coatings: Impact of the synthesis route on the final physico-chemical properties

Amélie HOUEL, Aurélie CHARLOT, Jocelyne GALY, Jean-François GERARD, Ingénierie des Matériaux Polymères, INSA Lyon, France

Direct and Indirect Effects of Clay Particles on the Electrical Breakdown of Polyethylene/Clay Composites

P. Tiemblo, M. Hoyos, N. Garcia, E. Benito, A. Ratto, S. Squarcia, F. Guastavino, Electrical Engineering Department, University of Genova, Genova, Italy, Institute of Polymer Science and Technology, Madrid, Spain

Study of the dispersion of high quantities of mineral fillers in a polyolefin matrix.

Beatriz Olalla, Christian Carrot, René Fulchiron, Ingénierie des Matériaux Polymères, Université Jean Monnet Saint Etienne, Université Lyon 1, France

In Situ generation of the silica followed by the ring-opening polymerisation of L-Lactide

A. Prébé, Ph. Cassagnau and J.-F. Gerard, Ingénierie des Matériaux Polymères, INSA de Lyon, Université Lyon1, France

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Accommodation will be not provided by the Conference organization, since Paris is well served with a wide selection of hotels. The conference site is in down town Paris, a few steps from Place d'Italie.

REGISTRATION FORM

Deadline for payment of registration fee: March 15, 2009

All fields printed in red are obligatory

Participant Address

Name: Surname:

Mr. Mrs. Ms. Prof. Dr.

Institution:

Address:

ZIP Code: City: Country:

E-mail: Phone: Fax:

Registration Fee

after March 1st, 2009

Participant
€ 400,00
(Italian VAT not applicable)

Students
€ 200,00
(Italian VAT not applicable)

Participant
+ € 450,00
(Italian VAT not applicable)

Students
+ € 250,00
(Italian VAT not applicable)

Billing Address

Please read carefully before proceeding:

The field "VAT no. / Fiscal Code" has obligatorily to be filled out, even in case the billing address is the same than the participant's address.

The Billing Address is the address the relevant invoice should be **ISSUED** to. Please note, that in case of **credit card payment** the invoice obligatorily has to be **issued to the cardholder**. Example: You **CANNOT** use your personal credit card, if you want the invoice to be issued to your institution (or vice versa). Kindly keep in consideration this important point while compiling the following fields.

Name: Surname:

Mr. Mrs. Ms. Prof. Dr.

Institution (only in case of billing to institutions and NOT to physical persons):

Address:

ZIP Code: City: Country:

E-mail: Phone: Fax:

VAT no. (in case of billing to institutions)

OR

Fiscal Code (in case of billing to physical persons):

Payment

<input type="checkbox"/> Bank transfer with reference to " 5th International ECNP Conference on Nanostructured Polymers and Nanocomposites ", specifying the name of the participant , made payable to: ECNP S.c.a.r.l. (<i>Via G. Giusti, 9 - I-50121 Florence - Italy - VAT no. IT 05660910489</i>) Account no. 5701/74 IBAN IT 56 W 03400 02800 000000570174 - BIC TOSCIT3FXXX Banca Toscana – Capogruppo di Firenze Via del Corso, 6 - I-50122 Florence, Italy <u>Please send the amount due free of any bank charges.</u>
<input type="checkbox"/> Credit card (VISA, Mastercard). For payment by Credit Card, please download and print the proper form, fill it out <u>clearly</u> with all required information and then send it ONLY by FAX to: Ms. Sabine Danieli ECNP S.c.a.r.l. Fax no. +39-055-2276042 (reserved line) <u>IMPORTANT: The above mentioned form DOES NOT substitute the present Registration Form. Sending ONLY the form for the credit card payment DOES NOT complete your registration.</u>

**ATTENTION! Your registration will be valid only
with your acceptance of the conditions reported below:**

With reference to the Italian law 196/03 we wish to inform you that your personal data will be used within the "**5th International ECNP Conference on Nanostructured Polymers and Nanocomposites**" institutional activity. We also wish to inform you that your personal data will be inserted in the participant list relevant to the present event.

- I herewith confirm that I agree that my submitted data concerning addresses, booking and methods of payment be electronically stored and processed in order to organize and manage this event. Furthermore, I accept that address and personal data are used for purposes connected to the event's management and will be published in the list of participants.

To: Ms. Sabine Danieli
ECNP S.c.a.r.l.
Fax number +39-055-2276042 (reserved line)

**Authorisation for Credit Card Payment
of the fees for registration to
"5th International ECNP Conference
on Nanostructured Polymers and Nanocomposites"**

Participant:

Name: Surname:

E-mail

Please charge EURO _____ (Italian VAT not applicable) to my:

VISA MASTERCARD

Card Number: Expiration date (mm/yy): /

Card Verification value: (*)

For security reasons it is necessary to fill in the Card verification value of your credit card. The number can be found on the rear, in the signature field, following the printed replica of the credit card number embossed on the front of the plastic. The value is only printed and is not contained in the magnetic-stripe date.

IMPORTANT:

Please note, that in case of credit card payment the invoice obligatorily has to be issued to the cardholder! Example: You **CANNOT** use your personal credit card, if you want the invoice to be issued to your institution (or vice versa). Kindly keep in consideration this important point while compiling the "**Billing Address**" field of your Registration Form.

Cardholder's
Name and Address:

Date (dd/mm/yy) / /

Signature: _____