



TUESDAY September 29th, 2009

17.00–20.00 Registration and welcome reception (Sede Universitaria Alicante)



WEDNESDAY September 30th, 2009

08.30–09.15 **Registration**

09.15–09.30 **Congress opening ceremony**

Session 1. Chairperson: Luc Avérous

Invited Lectures

09.30–10.10 **IL1 Alessandro Gandini.** Furan monomers and furan chemistry at the service of polymer science

10.10–10.50 **IL2 Sigbritt Karlsson.** Resource and environmental aspects of sustainable biocomposites

10.50–11.20 **Coffee break**

Session 2. Chairperson: Sigbritt Karlsson

Oral Communications

11.20–11.40 **OC1 Mohamed Ragoubi.** Evaluation of thermal degradation and dynamic mechanical properties of PP / hemp fibres composites: fibre plasma modification

11.40–12.00 **OC2 Sergio Torres Giner.** Electrospun cross-linked collagen nanofibers as novel bone tissue interfaces

12.00–12.20 **OC3 Eric Pollet.** Polyhydroxyalkanoates thermal degradation: catalytic effect of the ammonium surfactants found in nano-biocomposites based on clays

12.20–12.40 **OC4 Amparo López-Rubio.** On the plastifying effect of β -carotene in biopolyester matrices

12.40–13.00 **OC5 Aysegul Oncul.** Synthesis of graft copolymer of ethylmethacrylate onto polydichlorophosphazene and its ultrasonic degradation

13.00–13.20 **OC6 Dora Coelho.** Thermoreversible polymers based on the Diels–Alder reaction between furan and maleimide monomers. 2. AB monomers and A_2B_3 systems

13.20–13.40 **OC7 Ali Mansri.** Citric acid/starch catalysed sterification

13.40–15.15 **LUNCH BREAK**

Session 3. Chairperson: Alessandro Gandini

Invited Lectures

15.15–15.55 **IL3 Lars Berglund.** Nanocelluloses – unique polymeric building blocks for nanostructured polymer systems

Oral Communication

15.55–16.15 **OC8 Giovanni Camino.** PLA and PCL nanocomposites preparation and biodegradation

16.15–16.35 **OC9 José Badía.** Thermal analysis applied to the characterization of degradation in soil of polylactide: I. Calorimetric and viscoelastic analysis

16.35–18.00 **Coffee break and Poster Session 1**

21.00–23.00 **CONFERENCE COCKTAIL–DINNER at Santa Barbara Castle**



THURSDAY October 1st, 2009

Session 4. Chairperson: David Plackett

Invited Lectures

09.15–09.55 **IL4 Luc Avérous.** Nano–biocomposites: agropolymer/nanoclay systems

09.55–10.35 **IL5 José M. Kenny.** Processing and characterization of PLGA–carbon nanotube nanocomposites for bone tissue engineering

Oral Communications

10.35–10.55 **OC10 Verónica P. Martino.** Development and characterization of nano–biocomposites based on plasticized poly(lactic acid) and organomodified montmorillonite

10.55–11.15 **OC11 Reinhard Forstner.** How to shift toughness of PLA into non break area and create high impact flax fibre reinforcements

11.15–11.45 **Coffee break**

Session 5. Chairperson: Jean–Marie Raquez

Oral Communications

11.45–12.05 **OC12 Sandra Domének.** Influence of plasticization on barrier properties of poly(lactic acid)

12.05–12.25 **OC13 Gael Colomines.** Influence of the recrystallization conditions on the crystallinity and barrier properties of polylactide acid (PLA) food packaging films

12.25–12.45 **OC14 Natacha Bitinis.** Development of new biodegradable nanocomposites based on polylactic acid / natural rubber blends for packaging applications

12.45–13.05 **OC15 Sergio Bocchini.** Nano–biocomposites based on poly(lactic acid)–poly(hydroxybutyrate) blends

13.05–13.25 **OC16 Mónica Gomes.** Polyesters from renewable resources based on furan monomers: alternative materials to aromatic counterparts

13.25–15.00 **LUNCH BREAK**

Session 6. Chairperson: José M. Kenny

Invited Lectures

15.00–15.40 **IL6 Gennady E. Zaikov.** Biodegradation and medical application of microbial poly(3–hydroxybutyrate)

Oral Communications

15.40–16.00 **OC17 Béla Iván.** New ways for blending biodegradable polymers with poly(vinyl chloride)

16.00–16.20 **OC18. Antonio Greco.** Secondary plasticizers for PVC obtained from cardanol

16.20–16.40 **OC19 Jessica Donate–Robles.** Improved properties of formol–phenolic adhesive by adding natural–based fillers

16.40–18.15 **Coffee break and Poster Session 2.**



FRIDAY October 2nd, 2007

Session 7. Chairperson: Lars Berglund

Invited Lectures

09.15–09.55 **IL7 David Plackett.** Nanocellulose–reinforced bioplastics – prospects for further development

09.55–10.35 **IL8 Jean M. Raquez.** Recent development of novel (bio)polymers and related composites implemented by reactive extrusion

Oral Communications

10.35–10.55 **OC20 José M. Lagarón.** High Barrier Nanocomposites of Biopolyesters, Proteins and Polysaccharides for Coating and Packaging Applications

10.55–11.15 **OC21 Déborah Le Corre.** Starch nanoparticles for eco-efficient packaging: influence of botanic origin

11.15–11.45 **Coffee break**

Session 8. Chairperson: José M. Lagarón

Oral Communications

11.45–12.05 **OC22 M.C. Matos.** Olive stone as a renewable source of biopolyols

12.05–12.25 **OC23. Ana G. Cunha.** Simple and quick method to prepare highly hydrophobic cellulosic materials by vapor-phase reaction with chlorosilanes

12.25–12.45 **OC24 Ariadna Díaz-Tahoces.** Development of a method for biodegradability evaluation on leather used in the footwear industry

12.45–13.05 **OC25 J.S. Amaral.** Chitosan as an antimicrobial agent for footwear leather components

13.05–13.30 **Concluding remarks, presentation of BIOPOL–2011 and closure of the conference**

17.30–20.00 **VISIT and FAREWELL COCKTAIL at MARQ (Archaeology Museum)**



POSTER SESSION 1

P1-1	Q. Guo, B. Cheng, M. Kortschot, M. Sain, R. Knusdon, J. Deng, A. Alemdar. Performance and Processability of Canadian Natural Fibres as Reinforcements for Thermoplastics
P1-2	D. Versace, D. Battegazzore, S. Bocchini, A. Frache, G. Camino. Poly (butylensuccinate co-adipate)-thermoplastic starch nanocomposite blends
P1-3	R. Moriana, D. Limones-Herrero, A. Ribes-Greus. Comparative study about the thermo-mechanical performance of different biocomposites based on thermoplastic starch reinforced with natural fibres
P1-4	R. Moriana, C. Giménez, A. Ribes-Greus. Comparative study about water absorption in biocomposites based on thermoplastic starch reinforced with hemp fibre
P1-5	N.L. García, L. Ribba, A. Dufresne, M. Aranguren, S. Goyanes. New approach: Green nanocomposite from waxy maize starch
P1-6	A.S. Singha, V.K. Thakur. Synthesis and characterization of Grewia Optiva fibers based novel, polymer bio composites
P1-7	T. Kittikorn, E. Strömberg, M. Ek, S. Karlsson. Chemical surface modification of empty fruit bunch oil palm fibre in polypropylene biocomposites
P1-8	P. Hernández-Muñoz, R. Villalobos, J.P. Cerisuelo, M.P. Balaguer, R. Gavara. Physical performance improvement of wheat prolamin films by modification with chitosan
P1-9	O. Sahuquillo, M.D. Salvador, F. Segovia, J.M. Kenny. Analysis of degradation effect by surface characterisation in thermosetting composites
P1-10	O. Sahuquillo, V. Amigó, R. Llorens, F. Martí. Thermal and static mechanical properties of recycled high density polyethylene reinforced with natural fibres
P1-11	M.I. Artsis, L.A. Zimina, K.Z. Gumargalieva, G.E. Zaikov. Stabilization of polymers from the influence of biological media. Kinetic method of biocide efficiency estimation
P1-12	M.I. Artsis, L.L. Madyuskina, K.Z. Gumargalieva, G.E. Zaikov. Diagnostics of quality and prognosing of potatoes safe storage duration
P1-13	I. Recalde, N. Ortuño, J. Alonso, S. Aucejo. Physical properties and water / oil absorption of biodegradable coated paper and cardboard
P1-14	I. Egés, L. Serrano, M. González Alriols, R. Briones, I. Mondragón, J. Labidi. Oxypropylation of rapeseed cake residue to obtain biodegradable polyols
P1-15	R. Zuluaga, S. Betancourt, M. Peltzer, P. Gañán. Influence of I _α phase on thermal degradation behavior of cellulose I
P1-16	L.C. Tomé, C.S.R. Freire, A.J.D. Silvestre, C.P. Neto, A. Gandini, L. Brandão, A.M. Mendes, I.M. Marrucho. Preparation, characterization and evaluation of the permeability of cellulose films modified with fatty acids
P1-17	M.I. Rico, J. López, M.D. Samper. Study and characterization of by-products lignocellulosics through the use of SEM

P1-18	M.I. Rico, J. López, F. Parres, R. Navarro. Study of the composition of by-products from lignocellulosics pyrolysis GC / MS
P1-19	T. Sénéchal, J. Pantin, D. Viet, F. Vilaseca, A. Dufresne, J. Bras. Effect of cellulose whiskers on mechanical properties of impregnated paper
P1-20	L. Rueda, M.A. Corcuera, I. Mondragon, A. Eceiza. Bionanocomposites design based on functionalized nanocellulose as reinforcement for biocompatible polyurethane matrix
P1-21	M.D. Sanchez-Garcia, L. Hilliou, J.M. Lagarón. Development and Characterization of Novel Nanobiocomposites of K-Carrageenan, Layered silicates and Cellulose Nanowhiskers
P1-22	M. Martínez-Sanz, R. Olsson, A. López-Rubio, J.M. Lagarón. Characterization of Electrospun Fibres with Bacterial Cellulose Nanowhiskers
P1-23	M. Gallur, N. Ortuño, A. Devis, M. Jorda, J.M. Alonso, S. Aucejo. Improvement of different thermoplastic starch matrices by the addition of new cellulose nanowhiskers
P1-24	E. Hablot, R. Matadi, S. Ahzi, L. Avérous. Soybean oil-based polyamides and cellulose fibres-based biocomposites: Thermal, physical and mechanical properties
P1-25	A. Beltrán, M.C. Garrigós, M.L. Martín, N. Grané. Differential scanning calorimetry for almond oil characterization
P1-26	A. Beltrán, M.C. Garrigós, M.L. Martín, N. Grané. Differential scanning calorimetry to determine the oxidative stability of almond oil: characterization of three different cultivars
P1-27	M.A. Corcuera, M. Sanz, L. Rueda, B. Fernandez d'Arlas, A. Arbelaiz, C. Marieta, I. Mondragon, A. Eceiza, Microstructure and properties of polyurethanes derived from castor oil
P1-28	P. Guerrero, L. Martín, S. Cabezudo, K. de la Caba. Effect of processing methods on mechanical properties of soya protein films
P1-29	C. Peña, N. Gabilondo, K. de la Caba, R. Ruseckaite, I. Mondragón. Gelatin-hydrolysable and condensed tannin films
P1-30	C. Bueno, M.C. Garrigós, A. Jiménez. Evaluation of the use of natural plasticizers in commercial lids for food packaging. Characterization and migration in food simulants
P1-31	M. Peltzer, N. López, A. Jiménez. Use of hydroxytyrosol as active additive in polypropylene materials
P1-32	M. Peltzer, N. López, L. Matisová-Rychlá, J. Rychlý, A. Jiménez. Use of hydroxytyrosol as stabilizer in polypropylene films
P1-33	M. Ramos, M.A. Peltzer, A. Jiménez, M.C. Garrigós. Characterization of PP films with carvacrol and thymol as active additives
P1-34	R. Balart, D. García-Sanoguera, L. Sánchez-Nácher, O. Fenollar, J. Lopez. A migration analysis of natural additives in plasticized PVC
P1-35	D. García-Sanoguera, O. Fenollar, R. Balart, L. Sánchez-Nácher, M.A. Cano. Effect of UV treatment on interfacial adhesion in PVC/natural fillers biocomposites

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- P1-36** L. Martín-Closas, D.H. Barragán, A.M. Pelacho Aja. Evaluation of the potential of biodegradable polymers in agriculture through their spectroscopic properties
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- P1-37** J.N. Aneli, O.V. Mukbaniani. High pressure - inhibitor of formation and recombination of free radicals in gamma irradiated polyvinyl alcohol
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- P1-38** O.V. Mukbaniani, J.N. Aneli. Increasing of stability to high frictional loading of polytetrafluoroethylene filled with metals and their oxides
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POSTER SESSION 2

P2-1	C.M.B. Gonçalves, L. Brandão, A.M. Mendes, J.A.P. Coutinho, I.M. Marrucho. Barrier properties of poly(lactic acid) films modified with antioxidants
P2-2	E. Fortunati, I. Armentano, A. Iannoni, J.M. Kenny. Combining microcrystalline cellulose (MCC) and silver nanoparticles for multifunctional PLA based composites
P2-3	L. Santonja-Blasco, D. Bivins, A. Ribes-Greus, R.G. Alamo. Effect of thermal, photo, and biodegradation on the crystallization rate of polylactide
P2-4	L. Santonja-Blasco, A. Martinez-Felipe, J.D. Badía, R. Moriana, A. Ribes-Greus. Influence of visible radiation on the thermal properties of a polylactide
P2-5	J.D. Badía, L. Santonja-Blasco, R. Moriana, A. Ribes-Greus. Thermal analysis applied to the characterization of degradation in soil of polylactide: II. On the thermal stability and thermal decomposition kinetics
P2-6	M.LI. MasPOCH, J. Velázquez, J. Gamez-Perez, O.O. Santana, M. Sánchez-Soto. Influence of additives on the quench-promoted brittle-ductile transition of polylactic acid (PLA)
P2-7	J.F. Martucci, R.A. Ruseckaite. Three layer films based on gelatin and polylactic acid. Part 1. Preparation and characterization
P2-8	J.F. Martucci, R.A. Ruseckaite. Three layer films based on gelatin and polylactic acid. Part 2. Indoor soil degradation
P2-9	J.C. Garcia-Quesada, A. Marcilla, D. Berenguer, E. Gil. Kinetics of non isothermal crystallization of montmorillonite / polyhydroxyalkanoate nanocomposites
P2-10	J.C. Garcia-Quesada, A. Marcilla, D. Berenguer, E. Gil. Thermal behaviour of polyhydroxyalkanoates in the presence of different mesoporous solids
P2-11	N. Burgos, A. Jiménez, V.P. Martino, R.A. Ruseckaite, L. Averous. Enzymatic degradation of plasticized poly(lactic acid) and its nano-biocomposites
P2-12	N. Burgos, V.P. Martino, A. Jiménez. Evaluation of the compatibility and efficiency of L-lactic acid oligomers for the preparation of plasticized PLA
P2-13	S. Fiori, D. Tolaguera. Synthesis and characterization of new biobased plasticizers for poly(lactic acid)
P2-14	J. Lopez, M.D. Samper, O. Fenollar, F. Parres. Influence of polylactic acid (PLA) in the recycling of polyethylene terephthalate (PET)
P2-15	E. Fages, J. Pascual, L. Sánchez-Nácher, O. Fenollar, D. García-Sanoguera. Mechanical characterization of PHB-agave americana fibre biocomposites
P2-16	E. Fages, J. Pascual, D. García-Sanoguera, L. Sánchez-Nácher, R. Balart. Characterization of polypropylene-silver nanoparticles (PP-Ag NPs) composites for antibacterial uses
P2-17	S. Torrijo, A. Jiménez, I. Rodríguez, I. Guinea, I. Martín-Gullón. Effect of carbon nanofillers functionalization on the dispersion of poly(lactic acid) nanocomposites

P2-18	H. Öztürk, E. Pollet, A. Hébraud, L. Avérous. Lipase catalyzed synthesis of biopolyester and related clay-based nanohybrids
P2-19	O.A. Legonkova, M.S. Fedotova. Biotechnological approach to degradation of hybrid synthetic polymer composites
P2-20	I. Chodak. Prospective for high - volume applications of biodegradable plastics
P2-21	A.M.C. Grisa, R.N. Brandalise, J. Klein, T. Simioni, M. Zeni. Study degradation/biodegradation of the blue polyethylene film oxo-degradable in the landfill
P2-22	M. Zeni, J. Klein, V.T. Cardoso, B.C.D.A. Zoppas, A.M.C. Grisa, R.N. Brandalise. Evaluation of parameters essential for efficiency in the compostage process
P2-23	C. García-Martín, V. Andreu-Gómez, J.M. Martín-Martínez. Surface modification of natural rubber to improve its adhesion properties
P2-24	M.J. Ferreira, M.F. Almeida, V. Pinto, I.C. Santos, S.C. Pinho, Chromium tanned leather waste acid extraction and anaerobic biodegradation studies
P2-25	A. Marcilla, M. León, A.N. García, E. Bañón, P. Martínez, E. Montiel. Thermal pyrolysis of chromium-tanned leather in a fluidized bed reactor at low temperatures
P2-26	E. Bañón, P. Martínez, E. Montiel, A. Marcilla, A. García, M. León. Degradation of waste leather by thermal and catalytic pyrolysis
P2-27	G. Rubio, P. Sancho, E. Verdú, J. Mora, L. Gras. Determination of the bioavailability and total content of toxic elements in footwear samples by ICP-OES. Procedure of accreditation and validation
P2-28	A. Terol, E. Paredes, S. E. Maestre, M.S. Prats, J.L. Todolí. Influence of aerosol characteristics on liquid chromatography performance
P2-29	P. Sancho, G. Grindlay, J. Mora, L. Gras. Evaluation of different methodologies for the analysis of toxic elements in polymer samples by inductively coupled plasma atomic emission spectrometry
P2-30	R. Sánchez, J.L. Todolí, C.P. Lienemann. Influence of matrix composition on the silicon ICP-AES sensitivity in the analysis of petroleum products
P2-31	C. Sánchez, J.L. Todolí. Simultaneous determination of anions and cations in mineral waters through ICP-AES
P2-32	O.V. Karpukhina, K.Z. Gumargalieva, M.I Artsis, A. N. Inozemtsev. Effects of lead diacetate on structure of neurotropic drug (piracetam): conformational polymorphism
P2-33	E.V. Koverzanova, S.V. Usachev, K.Z. Gumargalieva, G.E. Zaikov Application of poly-HEMA embolic agent for target delivery cytostatic drug - doxorubicin
P2-34	I. Rodríguez-Roselló, C. Pacheco-Martínez, A. Martínez-Vicente, R. Escarré-Urueña, A. Berenguer-Berenguer. Clusterplast: Inter-cluster initiative to target the future challenges for the European polymer converting industry
P2-35	I. Rodríguez-Roselló, C. Pacheco-Martínez, A. Martínez-Vicente, R. Escarré-Urueña, A. Berenguer-Berenguer. Plastival: The cluster of the Valencian plastic processing industry

