



Scientific Program

Monday – June 16, 2014 Congress House-Main room

8:00am	Registration in Congress House Hall
8:20am	Opening Remarks: G. Berry, J.F. Gérard
Invited lectures	Main room - Chairman: J. Vancso
8:30am	L1 - Nanoparticle solutions as adhesives for gels and for organ repair. Ludwik Leibler, École Supérieure de Physique et de Chimie Industrielles, Paris, France
9:00am	L2 - Adhesion on rough or low energy surfaces: the role of viscoelasticity Anke Lindner, École Supérieure de Physique et de Chimie Industrielles, Paris, France
9:30am	L3 - Functionalized Native Nanocellulose Olli Ikkala, University, Department of Applied Physics, Aalto, Espoo, Finland
10:00am	Discussion
10:45am	Refreshment Pause
Contributed Lectures topic 5	Main room - Chairman: W. Reed
11:15am	O1 - Fabrication, characterization and latent heat thermal energy storage properties of encapsulated polystyrene/palmitic acid micro/nano capsules. <u>C. Alkan</u> , A. Sarı, D. Kahraman, A. Biçer, A. Altıntaş, A.N. Özcan, C. Kızıl, C.Bilgin
11:30am	O2 - Electrostatic Interaction of the Alzheimer's Amyloid β (1-42) Peptide with Short Single Stranded Synthetic Nucleotide Sequences Affects the Fibril Structure J. Abraham, D. Kedracki, C. Gourmel, P. Maroni, <u>C. Vebert-Nardin</u>
11:45am	O3 - Self-Assembly of Poly(Styrene-co-Maleic Anhydride) into Patterned Films and Nanoparticles <u>P. Samyn</u>



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<i>12:00am</i>	O4 - The collective dynamics in block copolymer micelles at equilibrium. G. Landazuri, M. Bravo, J.F.A. Soltero, <u>Y. Rharbi</u>
<i>12:15am</i>	O5 - Emerging Interphases in Poly(n-Butylacrylate)/Polystyrene Core-Shell Nanoparticles Obtained via Semicontinuous Miniemulsion Polymerization <u>S. Bonetti</u> , M. Farina, M. Mauri, I. Andreosso, R. Simonutti
<i>12:30am</i>	Lunch time (Poster setup in Eurotel Hall)
<i>Contributed Lectures topic 1</i>	Second floor room - Chairman: M. Cloitre
<i>11:15am</i>	O6 - Use alkali-lignin as a compatibiliser in cellulose nanofibrils/ poly (lactic acid) composites <u>X. Wang</u> , L.P. Zhang
<i>11:30am</i>	O7 - RAFT polymerisation of a lignin derived monomer <u>H. Willcock</u> , J. Belbin, N. De Rybel, M. Ahmed, A.J. Clark, R. K. O'Reilly
<i>11:45am</i>	O8 - Characterization of Acidified Chitosan Entrapped in Epoxidized Natural Rubber <u>G. Raju</u> , M.R.H. Mas Haris
<i>12:00am</i>	O9 - Influence of molar mass and concentration on the thermogelation of methylcelluloses <u>P. Nasatto</u> , F. Pignon, J.L. Silveira, M.E. Duarte Nosedá, M.D. Nosedá, M. Rinaudo
<i>12:15am</i>	O10 - The Effects of Nanoclays on Thermal Degradation of Polylactide via Direct Pyrolysis Mass Spectrometry <u>E. Ozdemir</u> , B. Ozkan, J. Hacaloglu
<i>12:30am- 2:00pm</i>	Lunch time (Poster setup in Eurotel Hall)



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Invited lectures	Main room - Chairman: O. Ikkala
2:00pm	L4 - Plant oils: The perfect renewable resource for polymer science ?! Michael A. R. Meier, Karlsruhe Institute of Technology (KIT), Institute of Organic Chemistry, Karlsruhe, Germany
2:30pm	L5 - Bio-based PBS, an application of the biorefinery concept, Anthony Brésin, ARD, Pomacle (France)
3:00pm	L6 - Surface modification of polysaccharides: from theory to practice Mohamed Naceur Belgacem, Laboratoire de Génie des Procédés Papetiers (LGP2), Grenoble INP-Pagora, Saint Martin d'hères (France)
3:30pm	Discussion
4:15pm	Refreshment Pause
Contributed Lectures topic 5	Main room - Chairman: H.N. Cheng
4:45pm	O11 - Interfacial structure of entangled polymer brushes under shear <u>A. Korolkovas</u> , P. Gutfreund, M. Wolff, F. Adlmann, J.-L. Barrat
5:00pm	O12 - Controlled Self-Assembly of Hydrophobic-Cationic Polymers leading to Waterborne Antimicrobial Nanogels <u>S. Chattopadhyay</u> , E. Heine, H. Keul, M. Möller
5:15pm	O13 - One-pot Synthesis of Responsive Polymer Nanoparticles <u>H. Willcock</u> , E. Chapman, I. Collins, R. K. O'Reilly
5:30pm	O14 - Hydrophobic dopant-enhanced and polymer-suppressed supramicellar assemblies, <u>Z. Zhu</u> , <u>W. F. Reed</u>
6:00pm	Poster Exhibits and Together Reception in Eurotel Hall
7:30pm	Dinner time



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<i>Contributed Lectures topic 1</i>	Second floor room- Chairman: W. De Groot
<i>4:45pm</i>	O15 - Chlorite-based pretreatments of cellulosic samples prior to SEC analysis <u>A.L. Dupont</u> , O. Bénaud , G. Mortha
<i>5:00pm</i>	O16 - Oxygen Transport in Poly(ethylene furanoate) Characterized via Permeation and Pressure-Decay Sorption Methods <u>S. K. Burgess</u> , R. M. Kriegel, W. J. Koros
<i>5:15pm</i>	O17 - Copolymers of Polylactide via Direct Pyrolysis Mass Spectrometry <u>T.O. Lekesiz</u> , B. Ozkan, J. Hacaloglu
<i>5:30pm</i>	O18 - Advances in Viscoelastic Behaviour Characterization Using Dynamic Mechanical Analysis <u>A. Gregorova</u> , F. Stelzer
<i>5:45pm</i>	O19 - Synthesis and characterization of a modified chitosan grafted nanoclay <u>L. Solhi</u> , M. Atai, M. Imani, A. Nodehi
<i>6:00pm</i>	Poster Exhibits and Together Reception in Eurotel Hall
<i>7:30pm</i>	Dinner time



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<i>Invited lectures</i>	Main room - Chairman: G. Berry
<i>8:30am</i>	L7- Label-free biomolecular interaction analysis and equilibrium-fluctuation-based single-molecule studies of cell-membrane mimics, Fredrik Höök, Chalmers University of Technology, Gothenburg (Sweden)
<i>9:00am</i>	L8 - Fluorescence Imaging of Single Amphiphilic Polymer-Coated Organic and Inorganic Nanoparticles, Nikodem Tomczak, Institute of Materials Research and Engineering, A*STAR Singapore. <i>MESA+ lecture</i>
<i>9:30am</i>	L9 - Polymer biofouling in sea water, G. Julius Vancso, University of Twente, MESA+ Institute for Nanotechnology (The Netherlands) and Institute for Chemical and Engineering Science, A*STAR, Singapore
<i>10:00am</i>	Discussion and information on the next ISPAC meeting
<i>10:45am</i>	Refreshment Pause
<i>Contributed Lectures topic 2</i>	Main room - Chairman: H. Pasch
<i>11:15am</i>	O20 - WAXS/SAXS/USAXS investigation of orientation induced by deformation in semi-crystalline polymers <u>S. Desvergne</u> , P. Panine, M. Fernandez-Martinez, F. Bossan, Y. Men, Y. Wang
<i>11:30am</i>	O21 - Separation of Polyolefin Copolymers by Crystallization and Adsorption techniques. Discussion on the separation mechanism on an atomic level flat surface adsorbent. B. Monrabal
<i>11:45am</i>	O22 - Biohybrid glycopolymers and chimeric polysaccharides capable of ionotropic gelation A. Wolnik, A. Ghadban, E. Renaud, L. Dumas, F. Dubreuil, F. Pignon, M. Rinaudo, <u>L. Albertin</u>



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12:00am	O23 - Molecular Structure of Linear Low Density Polyethylene <u>J.C.J.F. Tacx</u> , B.A.H. van den Esschert, S.Kok
12:15am	O24 - Characterization of artificially aged polyethylene <u>C. Schwarzinger</u> , I. Hintersteiner, B. Schwarzinger, B. Moser, W. Buchberger
12:30am	Lunch time
Contributed Lectures topic 1	Second floor room - Chairman: M. Meier
11:15am	O25 - Synthesis and Characterisation of a Poly(L-lactide-co-ε-caprolactone) Copolymer Using a Novel Tin(II) Alkoxide Initiator for Potential Use as an Absorbable Monofilament Surgical Suture <u>S. Ruengdechawiwat</u> , J. Siripitayananon, R. Somsunan, R. Molloy, P.D. Topham, B.J. Tighe
11:30am	O26 - Development and Characterization of Polyurethane Coatings for Enhanced Anti-Corrosive Properties <u>Praveen Kumar G</u> , KVRS Murthy, K K. Murthy
11:45am	O27 - Nanoscale characterization of organic semiconductors using x-ray spectromicroscopy <u>P. Warnicke</u> , N. Pilet, B. Watts, R. Fink, C. Quitmann, J. Raabe
12:00am	O28 - RheoRaman monitoring of acid acrylic polymerization <u>D. Chapron</u> , M.-C. Chevrel, N. Brun, E. Dropsit, S. Hoppe, D. Meimaroglou, L. Falk, P. Bourson, A. Durand
12:15am	O29 - Xe NMR Studies of Pecan Shell-Based Biochar and Structure-Process Correlations <u>M. Mauri</u> , R. Simonutti, G. Patriarca, K. Thomas Klasson, H. N. Cheng
12:30am-2:00pm	Lunch time



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Invited lectures	Main room - Chairman: J.F. Gérard
2:00pm	L10 - Why measuring and understanding the comonomer distribution is so important for the polyethylene industry Jesus Nieto, The Dow Chemical Company (Spain). Ingenia Lecture
2:30pm	L11 - Characterization of self assembled polymer systems by scattering techniques: light, x-ray and neutron scattering, Petr Stepanek, Institute of Macromolecular Chemistry, Academy of Sciences, Prague, Czech Republic
3:00pm	L12 - Multidimensional Analysis of the Complex Composition of Impact Polypropylene Copolymers: Combination of TREF, SEC-FTIR-HPer DSC, and High Temperature 2D-LC, Harald Pasch, Department of Chemistry and Polymer Science, University of Stellenbosch, 7602 Matieland, South Africa
3:30pm	Discussion
4:15pm	Refreshment Pause
Contributed Lectures topic 2	Main Room - Chairwoman: J. Duchet
4:45pm	O30 - How to characterize a vinylmelamine-ethylene-copolymer? Results and new issues <u>M. List</u> , C. Schwarzinger
5:00pm	O31 - Kinetic study of the crystallization of LLDPE and wax in LLDPE/wax phase-change blends used for thermal energy storage T.P. Gumede, <u>A.S. Luyt</u> , A.J. Müller
5:15pm	O32 - Crystallization monitoring of PVDF α -phase and β -phase by Raman spectroscopy and DSC analysis. <u>M. Veitmann</u> , D. Chapron, P. Bourson, S. Bizet, S. Devisme, J. Guilment



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5:30pm	O33 - Mesophase Formation in Propylene-co-1-Octene Copolymers Studied by Fast and Conventional DSC Techniques <u>J. Arranz-Andrés</u> , R. Parrilla ¹ , M.L. Cerrada, E. Pérez
5:45pm	O34 - Characterization and properties of novel blends composed of nitrile butadiene rubber and in-situ synthesized thermoplastic polyurethane-urea <u>M. Tahir</u> , K. W. Stöckelhuber, N. Mahmood, G. Heinrich
6:00pm	Poster Exhibits in Eurotel Hall
7:30 pm	Conference Banquet at Eurotel
Contributed Lectures topic 3	Second floor room - Chairwoman : A. Lindner
4:45pm	O35 - Nano-Handling of Individual Dendronized Polymers by Single-Molecule Force Spectroscopy <u>L. Grebikova</u> , P. Maroni, B. Zhang ¹ A.D. Schlüter ¹ , M. Borkovec
5:00pm	O36 - Characterization of diffusion processes in PVC films used in medical devices by coupling AFM to spectroscopy <u>H. Alsalloum</u> , J. Saunier, A. Dazzi, A. Tfayli, N. Yagoubi
5:15pm	O37 - Several TD-NMR methods for polymer characterization <u>M. Farina</u> , M. K. Dibbanti, M.Mauri, R.Simonutti
5:30pm	O38 - Characteristics of each Bonded Layer of a Polymer-Based Magnetic Tape using Rule-of-Mixtures and Dynamic Mechanical Analysis B. L. Weick
6:00pm	Poster Exhibits in Eurotel Hall
7:30pm	Conference Banquet at Eurotel



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Wednesday – June 18, 2014 Congress House-Main room

Invited lectures	Main room - Chairman: P. Kratochvil
8:30am	L13 - Ionic Liquids : new multifunctional agents for designing nanostructured polymers Jean-Francois Gérard, <i>INSA Lyon, F-69621 Villeurbanne, France</i>
9:00am	L14 - Ionic Liquids as Polymer Solvents: Polyelectrolytes, Polyzwitterions, Proteins, and Poly(amino acid)s, David Hoagland, Polymer Science and Engineering Department, University of Massachusetts Amherst, Amherst, Massachusetts, 01003 USA
9:30am	Discussion
10:15am	Refreshment Pause
Contributed Lectures topics 4&2	Main room - Chairman: D. Hoagland
10:45am	O39 - Doping polymer electrolyte membranes with ionic liquids: from the microstructure to advanced functional properties S. Lyonnard, R. Sood, C. Iojoiu, <u>H. Mendil-Jakani</u> , G. Gebel
11:00am	O40 - Preparation PBI composites of Fe ₃ O ₄ and NiFe ₂ O ₄ nanoparticule with ionic liquid and electrical conductivity E.Yilmaz, H.Dinc, <u>I. Ozaytekin</u>
11:15am	O41 - Deep eutectic ionic liquids as epoxy resin curing catalysts H. Mąka, <u>T. Szychaj</u> , W. Sikorski
11:30am	O42 - Compatibilization of polypropylene/polyamide 6 blends using an ionic liquids/nanotalc combination <u>M. Yousfi</u> , S. Livi, J. Duchet-Rumeau



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11:45am	O43 - Thermodynamic study of Blends of Poly(4-vinylphenol) / Poly(vinylmethyleketone) using Inverse Gas Chromatography <u>Z. Benabdelghani</u> , H.Bourara, A.Etxeberria
12:00am	O44 - Influence of isomeric monomers on the fragmentation of polymers <u>J. Beer</u> , K. Rode, W. Radke
12:15am	O45 - Morphology and rheology of binary blend of polypropylene and polyamide6: influence of multiwall carbon nanotubes <u>A. R. Bhattacharyya</u> , N. Mukhopadhyay, A. S. Panwar, P. Pötschke
12:30am	Concluding remarks and Lunch time
Contributed Lectures topic 5	Second floor room - Chairman: N. Tomczak
10:45am	O46 - Processable Crosslinked Epoxidized Natural Rubber <u>L. Imbernon</u> , E. K. Oikonomou, S. Norvez
11:00am	O47 - Water Soluble Multiarm Polyethylene glycol-Betulinic acid Prodrugs-Design, Synthesis, and in Vitro Effectiveness <u>L. Dai</u> , J. He, J. D. Lei
11:15am	O48 - Microstructural analysis of electrospun thermoplastic polyurethane nanofibers during heating <u>D. Alhazov</u> and E. Zussman
11:30am	O49 - Solvent effect on fabrication of PVP/PBI and PS/PBI nanofibers <u>H. Dinc</u> , B. Buyukbekar , M.S. Yavuz , I. Ozaytekin
11:45am	O50 - Characterization of Polyalkylacrylate and Polyalkylmethacrylate Polymers Produced by Using ATRP Method <u>D.Kahraman Doğüşcü</u> , C. Alkan
12:00am	O51 - Rheological properties and self-healing kinetics of supramolecular polymer network <u>T. Yan</u> , K. Schröter, F. Herbst, W. Binder, T. Thurn-Albrecht
12:30am	In the main room, Concluding Remarks / Lunch time



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