Sunday Sept. 28		
17:00 - 20:00 Registration – Welcome Party		

Monday Sept. 29	Tuesday Sept. 30	Wednesday Oct. 1
08:15 - 09:15 Registration	Session 5: BIOPOLYMERS	Session 9: POLYMER DYNAMICS
	Presiding: M. Kosmas, A. Andreopoulos	Presiding: D. Vlassopoulos, V. Mavrantzas
09:15 – 09:30 Opening Remarks	09:00 – 09:40 IL6 M. Muthukumar "Packaging biological	09:00 – 09:40 IL10 D.N. Theodorou "From chemical structure to
	macromolecules and delivery"	physical properties of polymers via hierarchical modeling"
Session 1: NANOTECHNOLOGY	09:40 – 10:00 O12 A. Gitsas "Self-assembly and dynamics of	09:40 – 10:00 O27 V. Raptis "A poly(dimethylsiloxane) quantum
Presiding: N. Hadjichristidis, G. Floudas	poly(γ-benzyl-L-glutamate) embedded into nanoporous alumina templates"	mechanical force-field: Molecular dynamics calculations for the prediction of physical properties"
09:30 – 10:10 IL1 E.L. Thomas "Periodic polymers for photonics,	10:00 – 10:20 O13 H. Iatrou "Vesicles from well-defined block	10:00 –10:20 O28 V. Harmandaris "Structure and dynamics of
phononics and mechanics"	copolypeptides"	entangled polystyrene melts through hierarchical multi-scale
		dynamic simulations"
10:10 – 10:30 O1 M. Pitsikalis "Synthesis and characterization of	10:20 – 10:40 O14 P. Papadopoulos "Hierarchies in the structural	10:20 – 10:40 O29 G. Tsolou "Topological and dynamical mapping
amphiphilic block copolymers. Association behavior in aqueous	organization of spider silk – a quantitative model"	of atomistic simulation data onto the tube model for entangled
solutions. Potential use of the micellar structure as drug carriers"	10.10.11.00.00	polymer melts"
10:30 – 10:50 O2 E. Pefkianakis "Synthesis and characterization	10:40 – 11:00 O15 S. Chaitidou "Synthesis of molecularly	10:40 – 11:00 O30 A. Rissanou "Molecular dynamics simulations
of polymeric [Ru ²⁺] complexes and their application as dyes in solar cells"	imprinted polymers via precipitation polymerization from the	of diblock-arm star copolymers"
10:50 - 11:10 Coffee Break – (Conference Photo)	selective separation of peptides" 11:00 – 11:20 Coffee Break	11:00 – 11:20 O31 I.G. Economou "Atomistic simulations of
10:50 - 11:10 Collee Break – (Conference Photo)	11:00 – 11:20 Coffee Break	poly(dimethylsiloxane) permeability properties to gases and n-
		alkanes"
Session 2: POLYMER SYNTHESIS	Session 6: SURFACES AND INTERFACES	11:20 – 11:40 Coffee Break
Presiding: J. Kallitsis, C. Tsitsilianis	Presiding: G. Floudas, C. Panayiotou	
Presiding: J. Kallitsis, C. Tsitsilianis 11:10 – 11:50 IL2 N. Hadjichristidis "Well-defined complex	Presiding: G. Floudas, C. Panayiotou 11:20 – 12:00 IL7 HJ. Butt "Single polymer binding: Towards a	Session 10: POLYMER TECHNOLOGY
Presiding: J. Kallitsis, C. Tsitsilianis 11:10 – 11:50 IL2 N. Hadjichristidis "Well-defined complex macromolecular architectures by anionic polymerization high	Presiding: G. Floudas, C. Panayiotou	
Presiding: J. Kallitsis, C. Tsitsilianis 11:10 – 11:50 IL2 N. Hadjichristidis "Well-defined complex macromolecular architectures by anionic polymerization high vacuum techniques"	Presiding: G. Floudas, C. Panayiotou 11:20 – 12:00 IL7 HJ. Butt "Single polymer binding: Towards a universal adhesive"	Session 10: POLYMER TECHNOLOGY Presiding: C. Papaspyrides, I. Simitzis
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Presiding: J. Kallitsis, C. Tsitsilianis 11:10 – 11:50 IL2 N. Hadjichristidis "Well-defined complex macromolecular architectures by anionic polymerization high vacuum techniques" 11:50 – 12:10 O3 G. C. Vougioukalakis "Vinyl polymerization of norbornene with a novel nickel (II)	Presiding: G. Floudas, C. Panayiotou 11:20 – 12:00 IL7 HJ. Butt "Single polymer binding: Towards a universal adhesive"	Session 10: POLYMER TECHNOLOGY Presiding: C. Papaspyrides, I. Simitzis 11:40 – 12:00 O32 E. Mitsoulis "Steady capillary flow of polytetrafluoroethylene (PTFE) paste: Experiments and
Presiding: J. Kallitsis, C. Tsitsilianis 11:10 – 11:50 IL2 N. Hadjichristidis "Well-defined complex macromolecular architectures by anionic polymerization high vacuum techniques" 11:50 – 12:10 O3 G. C. Vougioukalakis "Vinyl polymerization of norbornene with a novel nickel (II) diphosphinoamine/methylaluminoxane catalytic system"	Presiding: G. Floudas, C. Panayiotou 11:20 – 12:00 IL7 HJ. Butt "Single polymer binding: Towards a universal adhesive" 12:00 – 12:20 O16 D. Vlassopoulos "Viscoelasticity of semifluorinated alkanes at the air-water interface"	Session 10: POLYMER TECHNOLOGY Presiding: C. Papaspyrides, I. Simitzis 11:40 – 12:00 O32 E. Mitsoulis "Steady capillary flow of polytetrafluoroethylene (PTFE) paste: Experiments and simulations"
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13:30 - 15:00 Lunch Break	13:40 – 15:00 Lunch Break	13:20 – 14:20 Lunch Break
Session 3: COLLOIDS/GELS	Session 7: SURFACES AND NANOCOMPOSITES	14:20 - 14:40 O37 S.N. Vouyiouka "Post-polymerization in the
Presiding: D.N. Theodorou, C. Kiparissides	Presiding: S.H. Anastasiadis, C. Galiotis	solid state of sulfonated nylon 66 copolymers"
15:00 – 15:40 IL4 G. Fytas "Tailoring sound propagation by	15:00 – 15:40 IL8 M. Stamm "Polymer brushes for functional	14:40 - 15:00 O38 I. Raptis "Evaluation of a polymer based
mesoscopic engineering of soft matter"	surfaces"	chemocapacitive sensor array for the detection of vapor analytes and
		their mixtures"
15:40 – 16:00 O6 I. Bitsanis "Simulations of temperature induced	15:40 – 16:00 O21 P. Pissis "Dynamics of poly(propylene oxide)	15:00- 15:20 O39 G.C. Psarras "Electrical response of polymer
ageing and crystallization in dense suspensions of ultrasoft colloids"	amines intercalated in clay"	matrix-titanium carbide composites
16:00 - 16:20 O7 G. Petekidis "Yielding mechanisms and particle	16:00 – 16:20 O22 K. Chrissopoulou "Crystallization behavior in	15:20 -15:40 Best Poster Award - Closing Remarks
rearrangements in colloidal glasses and gels"	polymer/layered silicate nanocomposites"	(Award Committee: D. N. Theodorou, N. Hadjichristidis, G. Fytas)
16:20 – 16:40 O8 G. Staikos "Hydrogen-bonded interpolymer	16:20 – 16:40 O23 K. Triantafyllidis "The use of aliphatic	
complexes soluble at low pH"	di/triamines (Jeffamines) as clay surface modifiers for the	
	preparation of epoxy-clay nanocomposites"	
16:40 – 17:00 Coffee Break	16:40 – 17:00 Coffee Break	
Session 4: SELF-ASSEMBLY	Session 8: NANOCOMPOSITES	
Presiding: G. Fytas, C. Toprakcioglu	Presiding: A. Avgeropoulos, P. Pissis	
17:00 – 17:40 IL5 P. Alexandridis "Block copolymer-directed	17:00 – 17:40 IL9 M.R. Bockstaller "Tailoring the physical	
nanomaterials synthesis and organization"	properties of nanocomposite materials- Why structure matters"	
17:40 – 18:00 O9 S. Pispas "Self-assembled nanostructures from	17:40 – 18:00 O24 A. Horechyy "Synthesis and selective	
block copolymers and vesicle-forming surfactant in aqueous	segregation of Fe ₃ O ₄ nanoparticles inside of the poly-	
solutions"	2vinylpyridine domain of poly(styrene-b-2vinylpyridine)"	
18:00 – 18:20 O10 E. Ioannou "Effect of Lithium salt concentration	18:00 – 18:20 O25 E. Pavlopoulou "Impregnation of pH-	
on the self-assembly of PEO-based block copolymer electrolytes"	responsive polymeric matrices with metal nanoparticles"	
18:20 – 18:40 O11 D. Tasis "Fabrication of nanoobjects from star-	18:20 - 18:40 O26 G. Bokias "Complexation of anionic	
shaped copolymers"	polyelectrolytes with Cu ²⁺ ions and/or cationic surfactants: Design	
	of the polymer architecture to control the behavior in aqueous	
	solution"	
18:40 – 20:00 Poster Session I	18:40 – 20:00 Poster Session II	
	21:00 – Conference Dinner	

POSTERS

A. SYNTHESIS / POLYMER TECHNOLOGY

- [1] O.-N. Ciocoiu "Contribution to obtain the graft copolymers of alginic acid with pnipam"
- [2] I. Manolakis "High-temperature iminisation of crystalline poly(aryl ether ketones) using aromatic/aliphatic amines"
- [3] S.G. Nanaki "Synthesis, characterization and enzymatic hydrolysis of poly(propylene adipate)-co-poly(e-caprolactone) block copolymers"
- [4] D.N. Bikiaris "Synthesis, solid state and enzymatic degredation of novel poly(propylene-co-ethylene succinate)s"
- [5] E. Kaditi "b-Lactam functionalized amphiphilic block copolymers from poly(isoprene-b-ethylene oxide) copolymers"
- [6] A. Mateescu "Responsive polymer brushes on flat surfaces by surface-initiated polymerization"
- [7] V.A. Kosma "On the formation of apatite aggregates through precipitation from polymer-containing solutions"
- [8] D.S. Achilias "A kinetic investigation of the vinyl neo-decanoate bulk free-radical polymerization over the full monomer conversion"
- [9] S. Rangou "Synthesis and characterization of 2nd generation dendritic terpolymer"
- [10] G. Evangelou "Synthesis of poly(a-methylstyrene-b-4-hydroxystyrene) diblock copolymers via anionic polymerization"
- [11] C. Ntaras "Synthesis of graft copolymers with divinyl-terminated poly(dimethelsiloxane) and polystyrene ("grafting to" approach)"
- [12] M. Constantinou "Synthesis of block copolymers with poly(methyl methacrylate) and 2-(Trimethylsilyloxy) ethyl methacrylate [PMMA-b-(TMS-HEMA)]"
- [13] N. Politakos "Synthesis, molecular and morphological characterization of modified diblock copolymers with organic acid chloride derivatives"
- [14] K. Misichronis "Synthesis, molecular and morphological characterization of linear triblock terpolymers where one of the blocks is poly(cyclohexadiene)"
- [15] G. Zapsas "Synthesis and characterization of linear tetrablock quaterpolymers consisting of polystyrene, polybutadiene, polyisoprene and poly(methyl methacrylate)"
- [16] P. Georgopanos "Nanostructures from well defined diblock copolymers of polystyrene (PS) and poly(dimethylsiloxane) (PDMS)"
- [17] E. Grana "Thiophene conducting copolymers"
- [18] A. Tomou "Incorporation of Magnetic Nanoparticles in a PI3,4-b-PB1,4 polymeric matrix"
- [19] A. Enotiadis "Intercalation of an amphiphilic diblock copolymer in layered materials"
- [20] I. Kalamaras "Synthesis and characterization of proton exchange membrane nanocomposites for high temperature fuel cells"
- [21] K.P. Koutroumanis "Crosslinked 2-carboxybenzylchitosan: Synthesis, characterization and potential use for transdermal delivery of fluconazole"
- [22] S. Papadaki "Synthesis of copolyesters based on adipic acid, glycolic acids and 1,4-butanediol and their hydrolytic degradation"
- [23] A.C. Boussia "Low temperature process for the production of long chain aliphatic polyamides"
- [24] Th. Vasilakopoulos "Synthesis of symmetric and asymmetric miktoarm star copolymers (PI)₂(PEO)₂"
- [25] N. Petzetakis "Titanium catalyzed ring opening polymerization of lactides. A route to novel macromolecular architectures"
- [26] A. Nikopoulou "Synthesis of well defined graft polymers"
- [27] A. Touris "New approach to 'click chemistry' Combination of 'click chemistry' and anionic polymerization"
- [28] E. Driva "Controlled functional nanoparticles"
- [29] M. Gkikas "Synthesis of water soluble polypeptides containing (L-) Proline"
- [30] L.-F. Arakelian "Synthesis and characterization of triblock copolymers by combination of anionic and atom transfer radical polymerization"
- [31] A.K. Andreopoulou "Terpyridine-ruthenium complexes for the decoration of CNTs, semiconducting oligomers and polymers"
- [32] D. Triantou "Synthesis of copolymers based on benzene and biphenyl and their characterization by XRD and DSC"
- [33] P. Georgiou "Electrochemical surface treatment of laboratorily produced carbon fibers by cyclic votlammetry"
- [34] I. Zuburtikudis "Nanofiller effect on the thermal response of poly(3-hydroxybutyrate) nanocomposites and isoconversional kinetic analysis of the thermal degradation"
- [35] D. Kontziampasis "Periodic nanodot formation on polymers with plasmas: Towards plasma-directed polymer self-assembly?"
- [36] C. Kiparissides "Stochastic prediction of the exact topological characteristics of LDPE produced in Tubular reactors"
- [37] C. Kiparissides "Effect of reaction conditions and catalyst design on the rheological properties of polyolefins produced in gas-phase olefin polymerization reactors"
- [38] C. Kiparissides "Modeling of industrial catalytic olefin polymerization slurry reactors"

- [39] E. Voyiatzis "Viscoelastic tube inflation under constant rate of growth"
- [40] D. Papapetros "On-line monitoring of the industrial formaldehyde resin production"
- [41] M.M. Karabela "Effect of the concentration of silane-coupling agent on physical properties of dental resin-nanocomposites"
- [42] G. Karadimos "Plain and modified phase inversion membranes for gas separation"
- [43] N.M. Barkoula "Effect of the environmental degradation on the viscoelastic response of nano modified epoxies and CFRPs"
- [44] D.-E. Baciu "Synthesis and characterization of acrylic bone cements reinforced with bioceramics"
- [45] I. Raptis "Processing effects on the dissolution properties of thin polymer based chemically amplified photoresist films"
- [46] A. Pikasi "Electrical properties of polymeric carbons produced from the precursor system of novolac resin naphthakene/catalyst olive stones biomass"
- [47] Z. Ioannou "Novolac resin and lignocellulosic materials as precursors for carbonaceous adsorbents"
- [48] K. Papadimitriou "New high temperature polymer electrolyte membranes. Influence of the chemical structure on their properties"
- [49] A. Tsimpliaraki "The effect of nanoclay content on the electrospun fibrous structure of biodegradable polymer nanocomposites"
- [50] M. Siskos "Type II photoinitiator systems based on novel fluorenone and fluorene chromophores. A mechanistic study by Laser flash photolysis"

B. NANOTECHNOLOGY / SELF-ASSEMBLY / COLLOIDS / BIOPOLYMERS / SURFACES AND INTERFACES / NANOCOMPOSITES / POLYMER DYNAMICS

- [1] G. Choudalakis "Measurements of free volume in polymer nanocomposite coatings using positron annihilation lifetime spectroscopy"
- [2] E. Anyfantakis "Light-induced micro-fiber formation in transparent polymer solutions"
- [3] P. Voudouris "Does Brillouin light scattering probe the primary glass transition process?"
- [4] K. Raftopoulos "A thermal and dielectric study of molecular dynamics in polyurethane-POSS hybrids"
- [5] A. Kanapitsas "Dielectric-mechanical and thermal studies of molecular mobility and phase morphology in epoxy-amine/carbon black nanocomposites"
- [6] A. Pamvouxoglou "Dynamics and rheology in suspensions and glasses of soft colloids"
- [7] E. Logakis "Thermal and electrical properties of multi-walled carbon nanotube nanocomposites prepared by diluting a masterbatch with various types of modified and non-modified polypropylenes"
- [8] A. Stathopoulos "Dielectric studies of molecular dynamics in swollen poly(ethyl acrylate) networks with non-polar colvents"
- [9] S. Soulis "Dynamic mechanical and tensile properties of thermally oxidized homopolymer pan fibers"
- [10] G. Tsoukleri "Synthesis and mechanical properties of A_nB_n star copolymers and $A_n(B-b-C)_n$ star terpolymers"
- [11] G. Mitsis "Influence of maleic anhydrite component of cured polyesters on their relaxations determined by dielectric spectroscopy (DS) and dynamic mechanical thermal analysis (SMTA)"
- [12] G. Floudas "Self-assembly and dynamics of discotic liquid crystals"
- [13] A. Gitsas "Effect of architecture on the self-assembly and dynamics of model diblock and star copolypeptides"
- [14] M. Yiannourakou "Modeling the lateral aggregation of membrane proteins"
- [15] M. Karayianni "Complexation of hen egg with lysozyme with sodium (sulfamate-carboxylate) isoprene polyelectrolytes"
- [16] A. Hasimi "Study of the release kinetics of a drug and an MRI contrast agent from poly(vinyl alcohol) matrices"
- [17] K. Tsougeni "Wetting, optical property and protein adsorption control of polymer surfaces by plasma nanotexturing"
- [18] A. Panagopoulou "Bulk and interfacial dynamics of PDMS/Titania nanocomposites"
- [19] A. Giannakas "Synthesis and properties of unmodified LDPE/organosilicate nanocomposites"
- [20] S. Fotiadou "Organic-inorganic nanocomposites: A study of the structure and dynamics in confined geometry"
- [21] Th. V. Kosmidou "Glass transition, structural characterization and segmental dynamics in epoxy/carbon fillers nanocomposites"

- [22] C.G. Delides "Dynamics of epoxy nanocomposites: The effect of filler's content and the size structure and geometry of the nanoparticles"
- [23] A. Voulomenou "Study of silicone rubber nanocomposites reinforced with organophilic montmorillonite"
- [24] P. Maroulas "Molecular mobility studies in hybrid PCN clay nanocomposites"
- [25] P. Efthymiopoulos "A theoretical study on the size and the shape of linear dendronized polymers in good and selective solvents"
- [26] M. Kosmas "On the conformational properties of a DNA chain with loops"
- [27] A.N. Rissanou "Collapse transitions in thermosensitive alternating copolymers: A Monte Carlo study"
- [28] I. Tanis "Molecular dynamics of PAMAM dendrimers and their complexes with linear polymers in aqueous solutions"
- [29] C. Vlahos "Off lattice monte carlo simulations of AB and ABA hybrid star dendritic copolymers"
- [30] A. G. Koutsioubas "Neutron reflectivity and computer simulation studies of centrally adsorbed star polymer brushes"
- [31] Th. E. Raptis "Detection of diffusive jumps of small penetrants dispersed in polymer systems"
- [32] G.S. Dritsas "Investigation of thermodynamic properties of polyethylene glycol by inverse gas chromatography and computer simulations"
- [33] G. Tsolou "Atomistic simulations of the sorption of small gas molecules in polyisobutelene"
- [34] V. Harmandaris "Studying the Elasticity of Biological Membranes through Theory and Simulations"
- [35] M. Iakovidis "Structural and electronic properties of Nb nanowires by tight binding molecular dynamics calculations"
- [36] M. Gialambouki "Structural and electronic properties of Ti and TiO₂ on C nanotubes by ab-initio calculations"
- [37] E. Ioannou "Lithium ion induced nanophase ordering and ion mobility in ionic block copolymers"
- [38] C. Mantzaridis "Reversible self-assembled nanostructures from block polyampholytes"
- [39] K. Dimitroulopoulos "Self-assembly in mixed amphiphilic diblock copolymers-zwitterionic surfactants aqueous solutions"
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- [41] A. Meristoudi "Formation of gold nanoparticles in the corona of di- and triblock copolymers"
- [42] K. Mpoukouvalas "Charge transport of conjugated polymer coated core-shell nanoparticles"
- [43] S.I. Marras "Microcellular nanocomposite polymers prepared with supercritical CO₂: The role of nanoclays on porous structure"
- [44] A.A. Vassiliou "Poly(ethylene succinate) nanocomposites with a multifunctional nanofiller: Mechanical properties and biodegradability"
- [45] C.A. Stergiou "A new approach of segmental orientation in amorphous epoxy resin/carbon black nanocomposites"
- [46] D.S. Achilleos "End-grafted polymer chains onto inorganic nanoparticles"
- [47] S. Karagiovanaki "Adsorption of oligomers and polymers in nanoporous alumina"
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- [51] E. K. Oikonomou "Cu²⁺-induced gelation in aqueous solutions of maleic acid-containing polyeletrolytes"
- [52] Ch. Pandis "Hydration properties of nanostructured hydrogels based on poly(2-hydroxyethyl acrylate) and poly(2-hydroxyethyl-co-ethyl acrylate"
- [53] G.Z. Kyzas "Molecularly imprinted polymers (MIPs) as selective sorbents in trichromatic dye mixtures"
- [54] Z. Iatridi "pH-controlled quenching of the fluorescence of hydrophobic probes solubilized in ternary poly(acrylic acid) surfactant-Cu⁺² complexes in aqueous solution"
- [55] A.A. Stefopoulos "Development of new semiconducting polymer functionalized carbon nanotubes"