



INTERNATIONAL UNION OF
PURE AND APPLIED CHEMISTRY

Venue

16th International Conference on Polymers and Organic Chemistry (POC-16)

Creta Maris Beach Resort, Hersonissos, Crete, Greece

Monday 13 June to Thursday 16 June 2016

Conference web site <http://poc2016.com>

Conference Chairman

Prof. Demadis, Kostas (University of Crete, Greece)

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Welcome Message

Dear POC-16 Delegates,

I am delighted to welcome you in Crete and our 16th International Conference “Polymers and Organic Chemistry”, POC-16. The Conference is organized by the University of Crete, and is under the sponsorship of IUPAC. It continues the tradition of previous meetings, usually alternating between continents. Since their inception in 1982 in Lyon, France, the POC series present, discuss, share and disseminate recent advances at the interface of the fields of polymers and organic chemistry, thus promoting significant discoveries in science and technology.

The main scope of the POC conference is to exchange information, results and advances among scientists working in the areas of polymer synthesis, characterization, and applications, with an eye towards organic chemistry.

The main thematic areas of POC-16 are:

- Advances in polymer synthesis
- Polymers for separations and environmental protection
- Polymers in medicine, biochemistry and agriculture
- Novel functional polymers
- Polymers for catalysis and energy applications
- Biocatalysis and polymers synthesis
- Biopolymers and their applications
- Functional Metal-Organic Frameworks and Coordination Polymers, synthesis and applications
- Polymers in Cultural Heritage

The Conference Program comprises two presentation formats, oral and poster presentations. Two (2) Plenary Lectures and nine (9) Invited Talks will be delivered by leaders in the polymer field. These are accompanied by sixty three (63) oral presentations. Fifty seven (57) poster presentations will be delivered in two (2) sessions (Monday and Tuesday evenings), and will run during cocktail receptions.

I would like to extend my appreciation to the Scientific and Organizing Committees, and the Symposium Chairs for facilitating the conference programming and organization. Also, a warm “thank you” goes to our young researchers, who were responsible for all aspects of the technical organization, program, and all kinds of little (but significant) details of this conference.

I hope that you all enjoy the conference in the ambiance provided by the Creta Maris facilities!

With kind regards,

Kostas Demadis

Professor of Chemistry

POC-16 Conference Chair

Time**Pre-registration Day 12/6 (17:00 – 20:00)**

17:00-20:00

Delegate Registration**Day 1 13/6 (8:30 – 20:00)**

08:30-09:00

Delegate Registration

09:00-09:30

*Introductions: Conference opening**Opening Remarks*

09:00-09:05

Prof. Kostas Demadis, POC-16 Chairman / Univ. of Crete

09:05-09:15

Prof. Georgios Tsiironis, Deputy Rector of the Univ. of Crete

09:15-09:30

Prof. Maria Kanakidou, Chair of the Chemistry Department, Univ. of Crete

09:30-09:50

IUPAC presentation

Kostas Demadis

Session 1 : Advances in Polymer Synthesis and Biocatalysis.*Chairperson: Nikos Hadjichristidis*

09:50-10:30

*Polyhomologation: From organic to polymer chemistry*Nikos Hadjichristidis (**Plenary Lecture 1**)

10:30-10:45

20 *Design and biosynthesis of stimuli-responsive hydrogels*

Carmen Boeriu

10:45-11:00

57 *A green chemistry route to novel copolymers*

Francisc Peter

11:00-11:15

10 *CdSe (quantum dots)-graphene oxide system for thiophene polymerization: A new strategy, a new material*

Alexandra Mocanu

11:15-11:30

18 *Synthesis and characterization of hollow carbon nanospheres decorated with carbon nanotubes or metal oxide nanowires*

Selcuk Poyraz

11:30-12:45

Coffee break

12:45-13:15

*Polymerisation-induced self-assembly*Steven Armes (**Invited talk**)

13:15-13:30

21 *Complex architecture copolymers via anionic polymerization and ATRP: Synthesis, characterization and self-assembly*

Apostolos Avgeropoulos





- 13:30-13:45 24 *Microsynergetic formation of highly porous morphology of functional polymers*
Karel Jeřábek

13:45-15:00 **Lunch break**



Session 2: Polymers in Cultural Heritage.

Chairpersons: Christine Jerome & Karel Jeřábek

- 15:00-15:30 *Polyphosphoesters as a new platform for the design of particulate drug delivery systems*
Christine Jerome (**Invited talk**)
- 15:30-15:45 28 *Synthesis and characterisation of lignin-like oligomers as a bio-inspired consolidant for waterlogged archaeological wood*
Emily McHale
- 15:45-16:00 53 *Polyethylene glycol oligomers as siloxane modifiers in restoration of carbonate stones*
Bruno Sena da Fonseca
- 16:00-16:15 56 *Modification of water transport properties of porous building stones caused by polymerization of silicon-based consolidation products*
Ioannis Karatasios
- 16:15-16:30 76 *Study of biopolymer binders by surface-enhanced raman spectroscopy*
Aggelos Philippidis
- 16:30-16:45 77 *The effect of TiO₂ component on the properties of acrylic, cyclohexanone-based and urea-aldehyde polymers under accelerated ageing conditions*
Helen Veronika Farmakalidis
- 16:45-17:00 81 *Taking a lesson from nature: Bio-inspired materials for the preservation of cultural heritage objects*
Hartmut Kutzke
- 17:00-17:15 89 *Chelators confined into 80PVAC-Borax highly viscous dispersions for the removal of gypsum degradation layers*
Chiara Berlangieri

17:15-18:00 **Free time**

18:00-20:00 **Poster Session 1: SciMix and Cocktail Party**

Day 2 14/6 (9:00 – 20:00)

Session 1: Novel Functional Polymers.



Time	<i>Chairperson: Maria Vamvakaki</i>
09:00-09:40	<i>Photo-sensitive polymeric materials</i> Maria Vamvakaki (Plenary Lecture 2)
09:40-09:55	17 <i>Janus tectons : A versatile platform for reaching long-range 2D and pseudo-3D non-covalent Surface-confined self assemblies on sp²-carbon based substrates</i> David Kreher
09:55-10:10	23 <i>Functional polymers for design of siliceous nanocomposites</i> Vadim Annenkov
10:10-10:25	32 <i>Controlled hydrogel fiber formation of amphiphilic aromatics</i> Katrin Wunderlich
10:25-10:40	113 <i>The properties of rigid polyurethane nanocomposite foams prepared with an organobentonite</i> Bilge Erdem
10:40-10:55	43 <i>Poly(azocalix[4]arene)s: Unique interplay of responses</i> Vladimir Aseyev
10:55-11:15	47 <i>Synthesis and characterization of vinyl derivatives of naphthalene-2,7-diol as a photoluminescent dopant in POF technology</i> Małgorzata Gil
11:15-11:30	63 <i>Light-controlled enzymatic activity on orthogonally functionalized polymer brushes grafted from polymeric substrates</i> Matthias Dübner
11:30-12:30	Coffee break



Session 2 : Biopolymers and their Applications. Part I

Chairpeson: Judit Puskas

12:30-13:00	<i>Novel UV-curable rubbers for biomedical applications</i> Judit Puskas (Invited Talk)
13:00-13:15	10d <i>Functionalisation of chitosan oligomers: Towards bio-based products with new functionalities</i> Ghislain David



- 13:15-13:30 12 *Converting biopolymers into smart materials: Chemical functionalization of celluloses for new sensors and optical data storage devices*
François-Xavier Felpin
- 13:30-13:45 22 *Synthesis, characterization and property of antibacterial dye based on chitosan*
Ruilin Tang

13:45-14:45 **Lunch break**



Session 3 : Biopolymers and their Applications. Part II

Chairperson: Corneliu Davidescu

- 14:45-15:15 *Chemically modified polymer matrices with applications in environmental protection*
Corneliu Davidescu (**Invited Talk**)
- 15:15-15:30 36 *Synthesis of ferulated carboxymethylpullulan for obtaining antioxidant hydrogels by enzymatic crosslinking*
Virginie Dulong
- 15:30-15:45 39 *Applications of biopolymers and their analogues in synthesising functional green nanomaterials*
Siddharth Patwardhan
- 15:45-16:00 97 *Ordered block copolymer thin films with biocidal and self-polishing properties*
Theodoros Manouras
- 16:00-16:15 99 *Thermo/pH dual-responsive polymer grafted surfaces*
Melani Frysali
- 16:15-16:30 119 *Biomimetic approaches of diatoms inspirational management of silicic acid*
Argyro Spinthaki



Session 4 : Polymers for Catalysis and Energy Applications.

Chairperson: Siddharth Patwardhan

- 16:30-16:45 10b *Controlling of free radical grafting on nanoscale by RAFT technique*
Olgun Güven
- 16:45-17:00 10c *Photovoltaics without p-n junction: Computational study of ferroelectric organic systems*
Andrzej Sobolewski



17:00-17:15	15	<i>Hydrocarbon polymers as phase anchors and recyclable nontoxic solvents</i> David Bergbreiter
17:15-17:30	27	<i>Ionic main-chain polymer of chiral imidazolidinone and its application to asymmetric organocatalysis</i> Naoki Haraguchi
17:30-18:00		Free time
18:00-20:00		Poster Session 2: SciMix and Cocktail Party

Day 3 15/6 (9:00 – 17:00)

Session 1 : Polymers for Separations and Environmental Protection.

Time Chairperson: Gheorghe Ilia

09:10-09:40		<i>Modern methods used in synthesis of polyphosphoesters</i> Gheorghe Ilia (Invited Talk)
09:40-09:55	10a	<i>Radiation-grafted copolymers for environmental applications</i> Olgun Güven
09:55-10:10	14	<i>Sorption properties of Amberlite XAD7 functionalized with sodium 6-glycerophosphate</i> Narcis Duteanu
10:10-10:25	37	<i>Superchelating resins for extraction and recycling of elements of interest</i> Carlos Arrambide
10:25-10:40	60	<i>Removal of triazine-based herbicide on specific polymeric sorbent: Batch and fixed bed column studies</i> Sylwia Ronka
10:40-10:55	100	<i>Use of modified polyketones in water for the removal of salts</i> Patrick Figaroa
10:55-11:15	106	<i>Highly polar polymeric adsorbents - Development of materials for sorption of hydrophilic compounds</i> Andrzej Trochimczuk
11:15-12:15		Coffee break



Session 2 : Polymers in Medicine, Biochemistry and Agriculture.

Chairperson: Spiros Anastasiadis

- 12:15-12:45 *Structure and dynamics in polymer nanocomposites*
Spiros Anastasiadis (**Invited Talk**)
- 12:45-13:00 45 *The effect of hydroxyapatite nanoparticles on crystallization and thermomechanical properties of PLLA matrix*
Ioanna-Georgia Athanasoulia
- 13:00-13:15 59 *Synthetic non-hemolytic amphiphilic polymers with superior antibacterial activity - Structure/property relation for potential anti-superbug agents*
Nan-Loh Yang
- 13:15-14:45 **Lunch break**



Session 2 : Functional Metal-Organic Frameworks and Coordination Polymers, Synthesis and Applications.

Chairperson: Theoni Georgiou

- 14:45-15:15 *Designing well-defined polymeric materials*
Theoni Georgiou (**Invited Talk**)
- 15:15-15:30 8 *Self-assembled copper and silver coordination polymers: Design, structural features, catalytic and antimicrobial properties*
Alexander Kirillov
- 15:30-15:45 19 *1D mixed-metal coordination polymers: From antiferromagnetic chains to single chain magnets*
Constantinos Milios
- 15:45-16:00 30 *Spectrally-resolved second and third-order nonlinear optical properties of coordination polymers*
Jan Zaręba
- 16:00-16:15 31 *Impressive diversity of applications for phosphonate metal organic frameworks*
Aurelia Visa
- 16:15-16:30 74 *Multi-functional metal phosphonates: the luminescent and antibacteriological properties of silver phosphonates*
Gary Hix
- 16:30-16:45 87 *Oxalamide based metal organic frameworks*
Giannis Papaefstathiou

16:45-20:00	Free time
20:00	Conference group photo
20:00-...	Conference Gala Dinner

Day 4 16/6 (9:00 – 17:00)

Session 1 : Novel Functional Polymers.

Time	<i>Chairperson: Costas Patrickios</i>
09:10-09:40	<i>Well-defined, mechanically-robust hydrogels: strength enhancement through structural control</i> Costas Patrickios (Invited Talk)
09:40-09:55	72 <i>Functional copolyesters of α-methylene-gamma-butyrolactone with epsilon-caprolactone</i> Martin Danko
09:55-10:10	92 <i>Controlling rheology and surface properties of water solutions with amphiphilic copolymers</i> Patrizio Raffa
10:10-10:25	101 <i>Functional perfluorinated acrylonitrile copolymers for imparting superhydrophobicity to substrates</i> Tuba Çakir Çanak
10:25-10:40	103 <i>Polymer structure and dynamics in the bulk and under confinement</i> Krystalenia Androulaki
10:40-10:55	112 <i>Thermo-reversibly cross-linked rubbers and self-healing rubber compounds</i> Lorenzo Massimo Polgar
10:55-12:15	Coffee break

Session 2 : Advances in Polymer Synthesis.

	<i>Chairperson: Ghislain David</i>
12:15-12:30	34 <i>Improved synthesis and doping of semiconducting polymers for organic electronics</i> Anton Kiriy
12:30-12:45	38 <i>Novel polyurea polymers with enhanced mechanical properties</i> Gabriela Toader



- 12:45-13:00 70 *Tulipalin A - Monomer for the preparation of hydrogels and polymeric nanoparticles*
Jozef Kollár
- 13:00-13:15 102 *Tunning polymer crystallinity*
Kiriaki Chrissopoulou
- 13:15-13:30 41 *Synthesis of pyrrolizidine and indolizidine alkaloids initiated by photooxidation of furylalkylamines*
Manos Sofiadis
- 13:30-14:45 **Lunch break**



Session 3 : Polymers in Cultural Heritage.

Chairperson: Joanna Pietrasik

- 14:45-15:15 *Polymer brushes: From synthesis, through properties to applications*
Joanna Pietrasik (**Invited Talk**)
- 15:15-15:30 131 *The combined application of nanolime and silic acid ester - a promising way to consolidate stone and mortar*
Gerald Ziegenbalg
- 15:30-15:45 96 *Laser-assisted removal of aged and/or deteriorated polymeric over-layers from paintings. Recent research, practical issues and prospects*
Paraskevi Pouli
- 15:45-16:00 62 *Polarization sensitive second harmonic generation imaging microscopy of starch based restoration adhesives*
Sotiris Psilodimitrakopoulos
- 16:00-16:15 110 *Hybrid nanocomposites made of diol-modified silanes and nanostructured calcium hydroxide. Applications in Alum treated wood*
Fabrizio Andriulo
- 16:15-16:30 94 *Organogels for the cleaning of artifacts*
Maria Diletta Pianorsi
- 16:30-16:45 120 *Evaluation of TEOS efficiency as a consolidant for calcium-bearing minerals through optical coherent metrology*
Ioannis Grammatikakis
- 16:45-... **End of Conference - Closing Remarks**

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P02	154	<i>“Green” anionic polymers based on the inulin backbone as inhibitors for gypsum scale deposition</i> Melissourgaki, Athina
P03	121	<i>Evaluation of several polymers as consolidants for mitigating deteriorated mineral gypsum from the Palace of Knossos</i> Grammatikakis, Ioannis
P04	152	<i>Metal-organic frameworks for sensing applications</i> Papaefstathiou, Giannis
P05	78	<i>Bioinspired copper(II) coordination polymers as efficient pre-catalysts for the mild water-promoted oxidation of alkanes</i> Kirillova, Marina
P06	150	<i>New catalytic systems for oxidative functionalization of alkanes based on mixed-ligand aminoalcohol-dicarboxylate copper(II) coordination polymers</i> Kirillova, Marina
P07	109	<i>Investigation of theophylline release from pre- and post-loaded poly(N-[3-(dimethylamino) propyl] methacrylamide) hydrogels</i> Benzer, Umut
P08	55	<i>Proton conductivity and luminescence properties of lanthanide aminotriphosphonates</i> Bazaga García, Antonia Montserrat
P09	58	<i>Structure-properties correlations in divalent metal phosphonates</i> Colodrero, Rosario
P10	65	<i>The influence of synthetic parameters on the Metal (II) carboxyphosphonate properties</i> Visa, Aurelia
P11	146	<i>Polymeric Copper (II) phosphates incorporating 4-pyridyl (terpyridine). structural studies and anticancer activity</i> Bhat, Gulzar Ahmad

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P13	35	<i>Acid-base properties of biogenic long-chain polyamines and their activity in interpolymer reactions</i> Annenkov, Vadim
P14	64	<i>Performance of poly(styrene-co-divinylbenzene) functionalized with different aminophosphonate pendant groups, in the removal of phenolic compounds from aqueous solutions</i> Davidescu, Corneliu-Mircea
P15	61	<i>Synthesis of ferulated carboxymethylpullulan for obtaining antioxidant hydrogels by enzymatic crosslinking</i> Dulong, Virginie
P16	108	<i>Antibacterial properties of cetyltrimethylammonium bromide loaded and mechanically improved poly(N-[3-(dimethylamino)propyl]methacrylamide) (PDMAPMAAm) hydrogels</i> Kozbekci, Cansu
P17	54	<i>Multicomponent synthesis of 3-N-alkyl-2-(1,2-diferrocenylvinyl)-4,5-dihydro-oxazolinium salts and breaking their heterocyclic systems in the reactions with amines</i> Klimova, Elena
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P24	95	<i>Design of drug delivery system based on poly(2-hydroxy ethyl / 2-hydroxy propylmethacrylate-alt-maleic anhydride) porous hydrogels: testing of bioactive agent release using an ultrafiltration system</i> Marambio, Oscar G.
P25	16	<i>Polysaccharide-based ¹⁹F MRI contrast agents</i> Krawczyk, Tomasz
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P28	159	<i>Development of new BODIPY based materials for NIR optoelectronic applications</i> Squeo, Benedetta Maria
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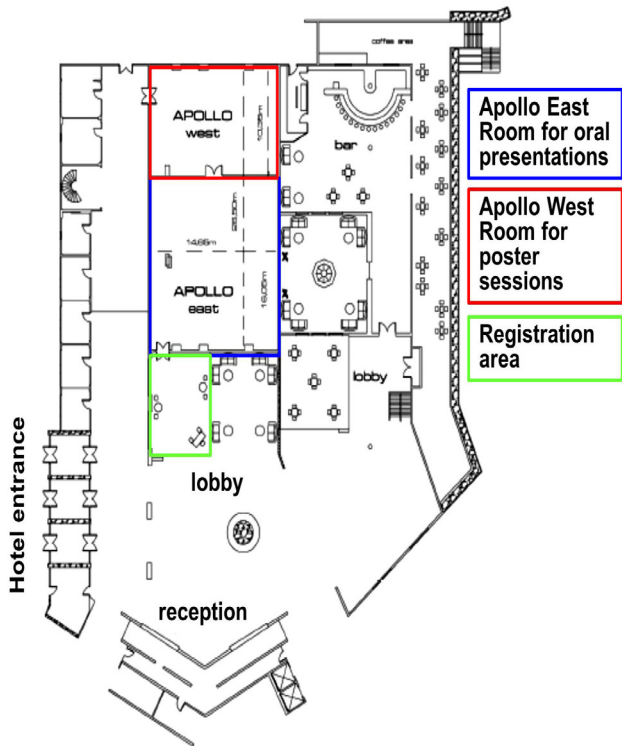
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P37	149	<i>Morphological structuration level as possibility to control the biodegradability of some renewable multiphase polymeric materials based on starch</i> Damian, Celina-Maria
P38	79	<i>Surface modification of iron with grafted hydrophobic acrylic polymers and study of their delamination kinetics</i> Mondragón Ochoa, Jesús Salvador
P39	124	<i>Biodegradable chitosan-g-poly(L-lactide) copolymers for bone tissue engineering</i> Kaliva, Maria
P40	114	<i>The effects of polymer-modified nanoclay on the thermal and mechanical properties of rigid polyurethane foams</i> Erdem, Murat

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P46	44	<i>Efficient biocatalytic route towards new ϵ-caprolactone copolyesters using microbial lipases</i> Todea, Anamaria
P47	75	<i>Dendronization of poly(ϵ-caprolactone). thermal analysis and characterization</i> Schmidt Cid, Mathias Ricardo
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P53	147	<i>Coordination polymers based on N,N-bis(phosphonomethyl) glycine: Synthesis, characterization & structures</i> Armakola, Eirini
P54	148	<i>Anticorrosion coatings based on metal phosphonate coordination polymers</i> Chalkiadakis, Sofoklis
P55	127	<i>Organophosphonic acids with multiple binding sites as bridging ligand on synthesis of novel metal organic frameworks</i> Bulut, Aysun
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CONFERENCE ROOMS FLOOR PLAN

Creta Maris facilities for POC-16



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