



**INTERNATIONAL SYMPOSIUM ON
AMPHIPHILIC POLYMERS, NETWORKS,
GELS AND MEMBRANES**

BUDAPEST, HUNGARY

30 August - 2 September 2015

PROGRAM

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30 August, Sunday

12:30 - 14:00 **REGISTRATION**

14:00 - 14:15 **OPENING**

Session 1 Session chairs: Metin H. Acar, István Szanka

14:15 - 14:50 *IL1* **Joerg C. Tiller**, Nico Bruns, Stephan Dech, Ina Sittko, Jan Tobis
Bioactive APCNs

14:50 - 15:25 *IL2* **Éva Kiss**, Gergő Gyulai, Ágnes Ábrahám, Kata Horváti, Zsuzsa Baranyai, Szilvia Bősze
PEO-PPO-PEO block copolymers: new applications of old molecules

15:25 - 15:45 *O1* **M. Marudova**, I. Bodurov, S. Sotirov, Y. Uzunova, B. Pilicheva, I. Avramova, A. Viraneva, I. Vlaeva, G. Exner, Ts. Grancharova, T. Yovcheva
Chitosan/xanthan multilayers on biodegradable substrates for use as an alternative drug delivery systems

15:45 - 16:05 **COFFEE BREAK**

16:05 - 16:40 *IL3* Eleni J. Kepola, **Costas S. Patrickios**
Amphiphilic Polymer Conetworks Based on End-linked Block Copolymers with Long-range Order and Superior Mechanical Properties

16:40 - 17:00 *O2* **Tatiana S. Demina**, L.V. Vladimirov, Tatiana A. Akopova, Alexander N. Zelenetskii
Solid-state grafting of oligo- and polylactide onto chitosan

17:00 - 17:20 *O3* **Jacek Siódmiak**, Piotr Bełdowski, Adam Gadomski
Self-assembly of the amphiphilic lubricants in aqueous and pH dependent solution examined by full-atom and coarse-grained simulations

17:20 - 17:40 *O21* **Yun Yan**, Limin Xu, Jianbin Huang, Ben Zhong Tang, Martien A Cohen Stuart
Coordination Polymer Facilitated Molecular Self-Assembly

17:40 - 18:00 *O5* **Tobias Rudolph**, Rahul Tiwari, Jose Guillermo Torres-Rendon, Andreas Walther
Influence of Hydrophilic/Hydrophobic Interactions Between Cellulose Nanofibrils and Polymers in Hybrid Materials

18:00 - 18:20 *O6* **Alexander Bilibin**, Tatjana Scherbinina, Peter Fetin, Ivan Zorin
Morphology of the polyelectrolyte-surfactant complexes depending on conditions of polymerization of alkylamino 2-acrylamido-2-methylpropane sulfonates

18:30 - 20:30 **RECEPTION**

SCIENTIFIC PROGRAM

31 August, Monday

Session 2 Session chairs: Sergei V. Kostjuk, Heikki Tenhu

- 8:30 - 9:05 IL4 **Volker Abetz**
Formation of Block Copolymer Membranes for Ultrafiltration
- 9:05 - 9:25 O7 **Ludmila Aricov**, Adriana Băran, Elena-Livia Simion, Ioana-Cătălina Gifu, Dan-Florin Anghel
Fluorescence investigation of hydrophobically modified polyacrylates in aqueous solution and in the presence of surfactants
- 9:25 - 9:45 O8 **Lajos Szente**, Éva Fenyvesi
Cyclodextrin-based non-covalent biomaterials for controlled release drug delivery
- 9:45 - 10:05 O9 **Erzsébet Illés**, Etelka Tombácz, Katalin Farkas, Márta Szekeres, Ildikó Y. Tóth, Ákos Szabó, Béla Iván
Designing a new multifunctional PEG-polycarboxylate shell on nanomagnets for biological use
- 10:05 - 11:35 **POSTER SESSION with COFFEE BREAK**
- 11:35 - 12:10 IL5 Jingying Yang, Gaojian Chen, Zuwei Xie, **Chi Wu**
One Stone Kills Three Birds: Novel Boron-containing Vesicles for Potential BNCT, Controlled Drug Release and Diagnostic Imaging
- 12:10 - 12:45 IL6 Anna P. Constantinou, Negar Ghasdian, Mark A. Ward, **Theoni K. Georgiou**
Well-defined Thermoresponsive Triblock Copolymer as Injectable Gels
- 12:45 - 13:05 O10 **Hiroshi Endo**, Takeshi Kawai
Bioinspired Multifunctional Wrinkle Film
- 13:05 - 14:00 **LUNCH**

Session 3 Session chairs: Françoise M. Winnik, Tatsuki Kitayama

- 14:00 - 14:20 O11 **Oleg V. Borisov**, Alexey A. Polotsky, Felix A. Plamper, Ekaterina B. Zhulina
Amphiphilic multi-responsive microgels
- 14:20 - 14:40 O12 **Peter Košován**, Tobias Richter, Christian Holm
Swelling of polyelectrolyte gels in salt solution: simulations and analytical model
- 14:40 - 15:00 O13 **Rachel Yerushalmi – Rozen**
Carbon Nanotubes mediated assembly of block copolymers
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SCIENTIFIC PROGRAM

- 15:00 - 15:20 O14 **Dražen Zanchi**, Jérémy Malinge, Emmanuelle Marie, Fanny Mousseau, Geoffrey Brun, Christophe Tribet
Tailoring colloid interactions/aggregation by adsorption of mixed layers of Poly(lysine)-g-PEG and Poly(lysine)-g-PNIPAM
- 15:20 - 15:40 O15 **Igor I. Potemkin**, Andrey A. Rudov, Artem M. Romyantsev, Rustam A. Gumerov
Peculiarity of swelling and collapse of polymer microgels and their interfacial activity
- 15:40 - 16:00 O16 **S. V. Kostjuk**, P.A. Nikishev, Yu. A. Piskun, I. V. Vasilenko
Synthesis of amphiphilic block and graft copolymers via consecutive controlled cationic (or radical) and anionic ring-opening polymerization
- 16:00 - 16:20 **COFFEE BREAK**
- 16:20 - 16:55 IL7 Fan XS, Lin TT, Tan BH, Li Z, Zhang X, **He CB**
Stereocomplexation of Polylactic Acid (PLA) and Its Applications in Self-assembly of Amphiphilic Polymers
- 16:55 - 17:15 O17 **A. V. Yakimansky**, T. K. Meleshko, I. V. Ivanov, A. Yu. Pulyalina, L. G. Klapshina, I. V. Balalaeva
Molecular Polyimide Brushes with Polymethacrylate Side Chains and Their Applications as Membrane Materials and Nanocontainers for Porphyrazine Agents of Photodynamic Theranostics
- 17:15 - 17:35 O18 **Yang Li**, Hongwei Ma, Zhiyong Wei, Xuefei Leng, Yingying Ren, Yufei Bian
Synthesis of Dendrigrft Amphiphilic Polymers By Living Anionic Polymerization
- 17:35 - 17:55 O19 **Tímea Stumphauser**, Csaba Fodor, Béla Iván
Poly(N-vinylimidazole) containing amphiphilic conetworks
- 17:55 - 18:15 O20 **C. Nardi Tironi**, K. Wunderlich, M. Klapper, K. Müllen
New materials based on amphiphilic polysulfone conetworks

01 September, Tuesday

Session 4 Session chairs: Volker Abetz, Chaobin He

- 9:05 - 9:40 IL8 **Martin Hrubý**, Jan Kučka, Ondřej Sedláček, Miroslav Vetrík, Aneta Pospíšilová, Pavel Švec, Petr Štěpánek
Polymers and supramolecular polymer systems for radionuclide delivery
- 9:40 - 10:00 O22 **Catherine Amiel**, Véronique Wintgens, Gisèle Volet, Amani Elfagui, Iurii Antoniuk, Thorbjorn Nielsen, Daria Kaczmarek, Imre Varga
Host-Guest hierarchical Macromolecular assemblies and their biomedical applications
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SCIENTIFIC PROGRAM

10:00 - 10:20 O23 **Bin He**, Yan Liang, Xin Deng, Jun Cao, Ting Su
Fabrication of Interaction between Therapeutics and Polymeric Micelles for Chemotherapy and Cellular Imaging

10:20 - 10:40 **COFFEE BREAK**

10:40 - 11:15 IL10 **Gregory N. Tew**
Strategies for amphiphilic co-networks with wide bicontinuous regions and high resilience

11:15 - 11:50 IL11 **Heikki Tenhu**, Erno Karjalainen, Mikko Karesoja
Solution Behavior of Responsive Cationic Polymers

11:50 - 12:10 O24 **Alexandre Lancelot**, Rafael Claviera, Olga Abian, Teresa Sierra, José Luis Serrano
Amphiphilic Janus dendritic derivatives for drug delivery

12:10 - 12:30 O25 Lei Jiang, **Li Li**, Zhongwei Gu
pH responsive liposomes for efficient anticancer drug delivery: in vitro and in vivo study

12:30 - 12:50 O26 A. Papagiannopoulos, A. Meristoudi, **S. Pispas**, A. Radulescu
*Complexation of lysozyme onto the corona of PnBA-*b*-PAA amphiphilic block copolymer micelles*

13:00 - 14:00 **LUNCH**

Session 5 Session chairs: Axel H.E. Müller, Costas S. Patrickios

14:00 - 14:35 IL12 **Julien Nicolas**
The drug-initiated method: a convenient way for the synthesis of efficient anticancer polymer prodrug nanoparticles

14:35 - 14:55 O27 **Raphaël Riva**, Stéphanie Vanslambrouck, Zeynep Ergul, Antoine Debuigne, Christine Jérôme
Cross-linked Polymer Micelles Made of Polyphosphate containing Amphiphilic Copolymers for Drug Delivery

14:55 - 15:15 O28 **S. E. Kudaibergenov**, Zh. A. Nurakhmetova, A. Shakhvorostov, I. Sh. Gussenov, B.Zh. Zhappasbayev, G.S. Tatykhanova, Nurxat Nuraje
Synthesis and Characterization of Hydrophobically Modified Polymeric Betaines

15:15 - 15:35 O29 **Thomas Defize**, Raphaël Riva, Jean-Michel Thomassin, Michaël Alexandre, Christine Jérôme
Development of photo- or thermo-reversible cross-linked recyclable shape-memory materials

SCIENTIFIC PROGRAM

- 15:35 - 15:55 O30 **A.D. Drozdov**, J. deClaville Christiansen
Modeling the effects of pH and ionic strength on swelling of cationic gels and core-shell microgels
- 15:55 - 16:15 **COFFEE BREAK**
- 16:15 - 16:50 IL13 **Françoise M. Winnik**
The heat-induced phase transition of poly(2-isopropyl-2-oxazoline) and its derivatives in water
- 16:50 - 17:10 O31 **Lionel Lauber**, Christophe Chassenieux, Olivier Colombani, Taco Nicolai
Self-Assembly Of Amphiphilic pH-Sensitive (A-co-B)-b-A Diblock Copolymers Controlled By The (A-co-B) Block
- 17:10 - 17:30 O32 **Szabolcs Pásztor**, Béla Iván
Synthesis and investigation of polyisobutylene based amphiphilic conetworks for constructing pH-valves
- 17:30 - 17:50 O33 **Qilu Zhang**, Françoise M. Winnik, Heikki Tenhu
Synthesis and Thermoresponsive Property of Branched Poly(sulfobetaine methacrylate)
- 19:00 - 23:00 **SYMPOSIUM DINNER**

02 September, Wednesday

Session 6 Session chairs: József Karger-Kocsis, Theoni K. Georgiou

- 8:30 - 9:05 IL14 Yasuhiro Kohsaka, Yusuke Matsumoto, **Tatsuki Kitayama**
Ethyl α -(aminomethyl)acrylate : An amphiphilic monomer for pH- / Temperature-responsive Polymers
- 9:05 - 9:40 IL15 T.I. Löbbling, J.S. Haataja, Olli Ikkala, A.H. Gröschel, **A.H.E. Müller**
Self-Assembled Multicompartment Structures of ABC Triblock Terpolymers With Controlled Internal Morphologies
- 9:40 - 10:00 O34 **Demetris E. Apostolides**, Costas S. Patrickios
Dynamic Covalent Networks Cross-linked via Acylhydrazone Groups
- 10:00 - 10:20 O35 **Éva Fenyvesi**, Katalin Gruiz, Mónika Molnár, Katalin Barkács, Gyula Záray, Imre Tóth, István Kenyeres, Marian Fernandez, Lajos Szente
Cyclodextrin bead polymers as specific sorbents for removal of micro-pollutants from purified waste water
- 10:20 - 10:40 **COFFEE BREAK**
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SCIENTIFIC PROGRAM

- 10:40 - 11:15 IL16 **Nico Bruns**, Valentina Maria Dinu, Mariana Spulber
Photo-permeabilized Amphiphilic Block Copolymer Vesicles as Nanoreactors for Enzymatic Reactions and ATRP
- 11:15 - 11:35 O36 **Mark Galat**, Roberto Boi, Börje Sellergren
Synthesis and rebinding analysis of molecularly imprinted polymers targeting amyloid-beta
- 11:35 - 11:55 O37 **David Gräfe**, Dietmar Appelhans, Brigitte Voit
Triple-sensitive Graft Copolymer Gels for Applications in Microfluidics
- 11:55 - 12:15 O38 **Christian Krumm**, Joerg C. Tiller
The influence of polymer network topology on "near perfect" APCNs based on poly(2-oxazoline)s
- 12:15 - 12:35 O39 **A. A. Lazutin**, E. N. Govorun, V. V. Vasilevskaya
Ultra-thin surface layer formed by grafted amphiphilic macromolecules
- 12:35 - 12:55 O40 **Marinos Pitsikalis**, Maria-Evgenia Kourti, Eleftheria Batagianni, Geogios Theodosopoulos, Christiana Nikovia, Patrina Paraskevopoulou
Metal-Mediated Polymerization for the Synthesis of Amphiphilic Copolymers
- 13:00 - 14:00 **LUNCH**
- Session 7 Session chairs: Nico Bruns, Éva Fenyvesi**
- 14:00 - 14:35 IL17 **Guojun Liu**, Muhammad Rubnawaz, Yu Wang, Heng Hu
Nanostructured Block and Graft Copolymer Materials for Applications
- 14:35 - 15:10 IL18 C. Erdinc Tas, **Metin H. Acar**
Synthesis of Amphiphilic Polymers by ATRP and Iniferter Methods
- 15:10 - 15:30 O41 **Elena-Livia Simion**, Gabriela Stîngă, Adriana Băran, Ludmila Aricov, Ioana-Cătălina Gîfu, Dan-Florin Anghel
Borax effect upon the association of hydrophobically modified poly(acrylic) acid and sodium dodecyl sulfate
- 15:30 - 15:50 O42 **Lutz Willner**, Thomas Zinn, Vitaliy Pipich, Reidar Lund, Dieter Richter
Equilibrium exchange kinetics in amphiphilic block copolymer micelles studied by time-resolved small angle neutron scattering
- 15:50 - 16:00 **CLOSING**
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Poster Presentations

- P1 Stefan Zschoche, Andreas Krause, Brigitte Voit**
Bi-sensitive Hydrogels for Microfluidic Applications
- P2 Birten Çakmakli, Emine Turan, Baki Hazer, Hale Seçilmiş-Canbay**
Synthesis and Characterization of Some Novel Plant oil Based Cryogels
- P3 D. V. Ludin, S. D. Zaitsev, Yu. L. Kuznetsova**
Synthesis of amphiphilic copolymers poly(styrene-co-vinyl alcohol) using system based on borane and quinone
- P4 Kristóf L. Bányai, Zsófia Osváth, Béla Iván**
Poly(N,N-diethylacrylamide)-based organic-inorganic hybrid gels made by sol-gel chemistry
- P5 Sana Kabdrakhmanova, Alibek Khabyev, Yesbol Shaymardan, Kydyrmolla Akatan, Malik Mauletkhan**
Use of molecular imprinted polymers for selective separation of lanthanum ions
- P6 Ivan Terzić, Marija Lučić Škorić, Nikola Milašinović, Nedeljko Milosavljević, Jasna Ivanović, Irena Žižović, Melina Kalagasidis Krušić**
Supercritical CO₂ impregnation of chitosan based xero- and aerogels with thymol
- P7 Marija Lučić Škorić, Nedeljko Milosavljević, Marija Radoičić, Zoran Šaponjić, Maja Radetić, Nikola Milašinović, Melina Kalagasidis Krušić**
Immobilization of TiO₂ nanoparticles onto chitosan-based microparticles for photodegradation of C.I. Acid Orange 7
- P8 Wenxia Gao, Yan Liang, Yalong Hu, Jun Cao, Bin He**
Intratumoral Injectable in Situ-Forming Supramolecular Organogels against Subcutaneous Tumor
- P9 Wael Ali, Beate Gebert, Karlheinz Graf, Mathias Ulbricht, Jochen S. Gutmann**
Thermally Responsive Hydrogel for Brackish Water Desalination
- P10 Abdiyev K. Zh., Toktarbay Zh., Dauletov Ye. A., Zhursumbaeva M.B.**
The new amphiphilic Polymer - Copolymer of N,N-dimethyl-N,N-diallylammonium Chloride with Vinyl Ether of Monoethanolamine
- P11 P. Bełdowski, J. Siódmiak, A. Gadomski**
Nanolubrication addressing properties of the self-assembling amphiphilic biopolymers in water based solution, a coarse-grained picture
- P12 Xin Deng, Yan Liang, Ting Su, Xinyu Peng, Jun Cao, Bin He, Zhongwei Gu**
A carrier-free strategy to fabricate nanoparticles for chemo-photodynamic synergistic therapy
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- P13 Elina N. Kitiri, Costas S. Patrickios, Nikolaos P. Mastroyiannopoulos, Leonidas A. Phylactou, Chysovalantis Voutouri, Triantafyllos Stylianopoulos**
Mechanically Robust Double-networks with Anti-fouling Properties
- P14 M. Marudova, G. Zsivanovits, I. Dimitrova, S. Kostadinova, Ts. Grancharova, D. Ivanova**
Water soluble chitosan coatings to improve fresh-cut melon's shelf-life
- P15 Wei Ma, Sylvain Guyot, Christophe Tribet, Dražen Zanchi**
Interactions of milk proteins micelles with tannins and inhibition of amyloid fibrillation
- P16 Ece Muraçal, Birten Çakmakli, Baki Hazer**
Paclitaxel Loading and Release Studies of the PHB-g-PNIPAM and PHB-g-Chitosan Micro/Nanospheres
- P17 Enikő Manek, Barbara Berke, Nikoletta Miklósi, Mónika Sajbán, Krisztina László**
Improvement of hydrogel biomedical potentials by the incorporation of carbon nanoparticles
- P18 Muhammad H. Samiullah, Detlef Reichert, Tatiana Zinkevich, Jörg Kressler**
Synthesis and characterization of Well-defined PEG-Networks
- P19 Yan Liang, Xin Deng, Xinyu Peng, Ting Su, Jun Cao, Bin He**
Terminal moieties effects on the drug delivery properties of PEG-PCL polymeric micelles
- P20 Hülya Arslan, Çiğdem Avcı**
Synthesis of temperature-sensitive hydrogels based on Chitosan and POEGMA for protein purification
- P21 Bence Varga, Ákos Szabó, Ralf Thomann, Béla Iván**
Amphiphilic polymer conetworks containing gold nanoparticles
- P22 R. Absil, G Rivero, R. Teixeira, S. Gabriele, P. Dubois, C.Barner-Kowollik, L. Mespouille, F. Du Prez**
Synthesis of Crosslinkable Microgels by Suspension Polymerization as Potent Drug Carrier for In Vivo Local Delivery
- P23 Jun Cao, Furong Cheng, Xuewa Guan, Yan Liang, Ting Su, Bin He, Zhongwei Gu**
Correlation of polymeric micelle size and their cellular uptake in vitro and tumor targeting in vivo
- P24 Margarita Droulia, Christiana Nikovia, Georgios Theodosopoulos, Vasiliki Asimopoulou-Marinou, Patrina Paraskevopoulou, Marinos Pitsikalis**
Amphiphilic copolymers based on 2-methacryloyloxyethyl ferrocene carboxylate (MAEFC)
- P25 Panayiota A. Panteli, Costas S. Patrickios, Chrysovalantis Voutouri, Triantafyllos Stylianopoulos**
Multiple Network Hydrogels with Good Mechanical Strength Based on a Single Nonionic Monomer
-

- P26 Ozgun Daglar, Erhan Demirel, Hakan Durmaz, Umit Tunca, Gurkan Hizal**
Polyurethane Modifications via Double Click Reactions
- P27 Changzhen Sun, Xin Deng, Bin He**
Dual ROS and pH-sensitive biodegradable polymeric micelles for drug delivery
- P28 Mikhail Voznesenskiy, Alexey Victorov**
Diffusion of a sticky chain in associative polymer network: a primitive numerical model vs scaling relations
- P29 Emine Turan, Birten Çakmakli, Baki Hazer**
Synthesis and Characterization of Some Novel Amphiphilic Olefin Copolymers based on Plant oils
- P30 G. S. Tatykhanova, A. N. Klivenko, S. E. Kudaibergenov**
Hydrogenation of p-nitrophenol by gold nanoparticles immobilized within macroporous amphoteric cryogel
- P31 Véronique Wintgens, Cédric Lorthioir, Pierre Dubot, Bernard Sébille, Catherine Amiel**
Cyclodextrin/dextran based hydrogels prepared by cross-linking with sodium trimetaphosphate
- P32 Esteban Araya-Hermosilla, Ignacio Moreno-Villoslada, Patrizio Raffa, Francesco Picchioni**
Polymeric surfactants based on the chemical modification of polyketone
- P33 D. Görl, F. Würthner**
Hydrophobic effects of perylene bisimides
- P34 Lyudmila Todorova, Christo Novakov, Darinka Christova**
Hydroxyl-functionalized poly(N,N-dimethylacrylamide) copolymers and hybrid polymer/silica nanoparticles using sol-gel chemistry approach
- P35 Zsófia Osváth, Tamás Tóth, Béla Iván**
Poly(N-isopropyl acrylamide) based hybrid gels, their properties and potential application possibilities
- P36 György Kasza, Csilla György, Béla Iván**
Hyperbranched polyglycerol based polyurethane networks: synthesis, characterization and the investigation of their drug release properties
- P37 M. Glavcheva, S. Ivanova, D. Christova**
Hyperbranched hydroxyl-functionalized copolymers and gels with potential biomedical application
- P38 Na Hao, Jun Cao, Bin He**
An Aggregation-Induced Emission Micelle for Imaging and Anticancer Drug Delivery
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SCIENTIFIC PROGRAM

P39 **O. S. Zotova, S. D. Zaytsev**

Amphiphilic Copolymers of Styrene and Acrylic Acid Prepared via RAFT Polymerization and Their Self-Organization At the Air-Water Interface

P40 **Do Won Kim, Jong Suk Sonn, Jong Choo Lim, In Ho Yoon, Chong Hun Jung**

Surface Modification of CaCO₃ Nanoparticles by Fluorinated Surfactant

P41 **David Gräfe, Jens Gaitzsch, Dietmar Appelhans, Brigitte Voit**

Polymersomes as Smart and Controllable Nanoreactors

P42 **Attila Nádor, György Kasza, Katarína Mosnáčková, Zsófia Osváth, Tímea Stumphauer, Györgyi Szarka, Klaudia Czaniková, Jozef Rychlý, Štefan Chmela, Jaroslav Mosnáček, Béla Iván**

Syntheses and characterization of multicomponent macromolecular stabilizers

P43 **Ning Li, Zhongwei Gu**

Amphiphilic peptide dendritic copolymer-doxorubicin nanoscale conjugate self-assembled to enzyme-responsive anti-cancer agent

P44 **Attila Domján, Csaba Fodor, Péter Mezey, Béla Iván, Enikő Manek, Krisztina László**

Solid-state NMR investigations of amphiphilic polymers

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