

Seventh Cristofor I. Simionescu Symposium

Frontiers in Macromolecular and Supramolecular Science

Location:

June 4 – 5 – “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi

Scientific Program

Thursday, June 4

09:30 – 10:00

Opening

- Welcome address – **Valeria Harabagiu**, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania
- Evocation of Cristofor I. Simionescu
 - **Virgil Barboiu**, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania
 - **Virgil Percec**, University of Pennsylvania, Philadelphia, USA

10:00 – 10:45

Water-based Noncovalent Nanomaterials

Boris Rytchinski, Weizmann Institute of Science, Rehovot, Israel

10:45 – 11:30

Automated Glycan Assembly Enables Molecular Glycobiology and Material Science

Peter H. Seeberger, MPI, Potsdam-Golm and Free University of Berlin, Germany

11:30 – 12:15

Imino-chitosan: a Pathway toward Functional Biodynamic Materials

Luminita Marin, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

12:15 – 13:15

Lunch

13:15 – 14:15

Visit of the Institute

14:15 – 15:00

The Spark of Life

Michael L. Klein, Temple University, Philadelphia, USA

15:00 – 15:30

Novel “Caged” Nucleic Acid Binders Activated by Light of Variable Wavelength

Alexandru Rotaru, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

15:30 – 16:00

Coffee break

16:00 – 16:20

Structural Diversity in Cu(II) and Co(II) Complexes Induced by Flexible Ligands

Mirela-Fernanda Zaltariov, Sergiu Shova, Maria Cazacu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

16:20 – 16:40

Composite Interpenetrating Polymer Network Cryogels based on Methacrylic Acid Copolymers and Chitosan

Ana Irina Cocarta, Ecaterina Stela Dragan, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

16:40 – 17:00

Poly(N-isopropylacrylamide-co-maleic acid) pH/thermoreponsive Microgels for Self-regulated Drug Delivery Systems

Sanda Bucatariu, Marieta Constantin, Valeria Harabagiu, Gheorghe Fundueanu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

17:00 – 18:00

Poster session

18:00 – 21:00

Grill/Picnic

Friday, June 5

09:30 – 10:15

Materials Genome Approach to Mimics of Biological Membranes with Programmable Glycan

Virgil Percec, University of Pennsylvania, Philadelphia, USA

10:15 – 11:00

From Olefin Metathesis to Organometallic Nanoparticles; A Journey in Chemical Discovery

Gabriel Lemcoff, Ben-Gurion University of the Negev, Israel

11:00 – 11:15

The Oenology of Iasi, prospects for a new approach

dr. Marius Niculaua si dr. Bogdan Constantin Nechita, Academia Română-Filiala Iasi - Centrul de Cercetări pentru Oenologie

11:15 – 11:45

Squalene-based Dynamic Constitutional Frameworks as Artificial Gene Delivery Systems

Lilia Clima, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

11:45 – 12:05

Meltable Halogen-free Flame Retardant for Polyamide-6 (PA-6)

Irina Butnaru, Maria Bruma, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

12:05 – 12:25

Hydrophobic Core Influence in Transfection Efficiency of Polycationic Gene Vehicles

Cristina Uritu, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

12:25 – 12:45

Non-Viral Gene Delivery Vectors based on Dynamic Hydrophobic – Hydrophilic Imines

Daniela Ailincăi, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

12:45 – 13:00

Closing of the Symposium

13:00 – 14:00

Lunch

14:00 – 19:00

Iasi sightseeing

19:00 – 21:00

Dinner

Poster session
Thursday, June 4, 17.00 – 18.00

Polar Silicones for Electro-Mechanical Transduction

Carmenus Racles¹, Mihaela Alexandru¹, Adrian Bele¹, Valentina Musteata¹, Maria Cazacu¹, Dorina M. Opris²

¹“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, and ²Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland

DNA-Mediated Cooper Nanoparticle Formation on Dispersed Single-Walled Carbon Nanotubes

Elena-Laura Ursu, Alexandru Rotaru, Mariana Pinteala, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Upon Synthesis of a Comprehensive Copolymer Network based on Itaconic Anhydride and 3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane for Bioconjugation

Alina Diaconu, Loredana Nita, Elena Butnaru, Nita Tudorachi, Cornelia Vasile, Mariana Pinteala, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Biocompatibility, biodegradability and drug carrier ability of some substituted-anhydride modified collagen based hydrogels

Daniela Pamfil¹, Liliana Tartău², Liliana Verestiuc², Loredana Nita¹, Aurora Chiriac¹, Cornelia Vasile¹, ¹“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, and ²“Gr. T. Popa” University of Medicine and Pharmacy, Iasi, Romania

Bio-based Flexible Networks from Epoxy Resin and Castor Oil Maleate

Dan Rosu, Fanica Mustata, Nita Tudorachi, Cristian-Dragos Varganici, Liliana Rosu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Multi-component Polymer Systems based on Biopolymers from Renewable Resources – Structure and Properties

Carmen-Alice Teaca, Ruxanda Bodirlau, Dan Rosu, Nita Tudorachi, „Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Tandem Mass Spectrometry Characterization of Lactide Functionalized Cyclodextrins

Razvan Rotaru, Cristian Peptu, Valeria Harabagiu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Magnetic Nano-sized Adsorbents for Congo Red Dye Removal from Wastewaters

Petrisor Samoila, Corneliu Cojocaru, Liviu Sacarescu, Valeria Harabagiu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Pullulan Coated Magnetic Nanoparticles: Preparation and Characterization

Alina Spatareanu, Gabriela Biliuta, Valeria Harabagiu, Sergiu Coseri, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Rubbed Polysilane Films as Liquid Crystal Alignment Layers

Marius Soroceanu, Andreea Irina Barzic, Iuliana Stoica, Liviu Sacarescu, Valeria Harabagiu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Adsorption of Biomolecules on Mesoporous Carbon. Effect of pH

Maria Ignat, Liviu Sacarescu, Valeria Harabagiu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

Polymeric Supra-structures as Complex Templates for CaCO₃ Growth

Florica Doroftei, Marcela Mihai, Bogdan C. Simionescu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania