



Eighth „Cristofor I. Simionescu“ Symposium *Frontiers in Macromolecular and Supramolecular Science*
„Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy | Iasi | 1-2 June 2016

Eighth „Cristofor I. Simionescu“ Symposium ***Frontiers in Macromolecular and Supramolecular Science***

Location:

June 1 - 2 - “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi

Scientific Program

WEDNESDAY, June 1 2016

09:30 - 10:00

Opening

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

10:00 - 10:40

State-of-the-Art in Modeling of Water and Ionic Solutions

Michael L. Klein, Temple University, Philadelphia, PA, USA

10:40 - 11:20

Polymers for Biological Applications

Jean M. J. Frechet, UC Berkeley, CA, USA and KAUST, Saudi Arabia

11:20 - 12:00

Gene Therapy through Non-viral Vectors based on Polyrotaxane Structures

Mariana Pinteala, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

12:00 - 13:00

Lunch

13:00 - 14:00

Visit of the Institute

14:00 - 14.40

Supramolecular Polymers with Self-regulated Secretion: Towards New Antifouling Materials

Joanna Aizenberg, Harvard University, Cambridge, MA, USA

14:40 - 15:20

Helical Supramolecular Polymerization of Homochiral, Heterochiral, Racemic and Achiral Building Blocks

Virgil Percec, University of Pennsylvania, Philadelphia, PA, USA

15:20 - 15:50

Coffee break



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15:50 - 16:20

A Range of Spin Crossover Temperatures in Some Ferrous Materials

Sergiu Shova, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

16:20 - 17:00

Chemistry Education for Sustainable Development

Katherine B. Aubrecht, Stony Brook University, NY, USA

17:00 - 17:15

Nanoconjugates with fullerene C60 core for biomedical applications

Andrei Dascalu, Cezar Ungurenasu, Mariana Pinteala, Bogdan C. Simionescu,
“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

17:15 - 17:30

Macromolecular architectures containing naphthylimide chromophores

Catalin - Paul Constantin, Mariana Dana Damaceanu, Maria Bruma,
“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

17:30 - 17:45

UV-visible light-induced degradation of some organic compounds by photopolymerized hybrid films containing nano-TiO₂

Andreea Chibac, Violeta Melinte, Tinca Buruiana, Emil Buruiana,
“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

17:45 - 18:45

Poster session

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THURSDAY, June 2 2016

09:30 - 10:10

Stimuli-responsive Gels: New Composition Architecture and Functions

Michael Aizenberg, Harvard University, Cambridge, MA, USA

10:10 - 10:50

Synthesis of Functional Materials using Metathesis Initiators

Robert H. Grubbs, Caltech, Pasadena, USA

10:50 - 11:20

Coffee break

11:20 - 12:00

From Molecules to Macromolecules to Functional Materials: Controlling Structure and Properties through Synthesis

Robert B. Grubbs, Stony Brook University, NY, USA

12:00 - 12:40

Engineering Raw Natural Products: Cellulose Case

Sergiu Coseri, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

12:40 - 13:40

Lunch



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13:40 - 14:20

Cryogels - Superporous Gels with Remarkable Features

Maria Valentina Dinu, Ecaterina Stela Dragan, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

14:20 - 14:35

Dielectric elastomers optimized through interpenetration strategies

Codrin Tugui, Adrian Bele, Stelian Vlad, Carmen Racles, Maria Cazacu,
“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

14:35 - 14:50

**Pulsed laser deposition of non-polar Al-doped ZnO electrodes on polymer surfaces:
a new approach**

Cristian Ursu, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

14:50 - 15:05

**Smart macroporous IPN hydrogels responsive to pH, temperature and ionic strength.
Evaluation of uptake and controlled release of drugs**

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

15:05 - 15:20

Closing of the Symposium

15:30 - 18:30

Iasi sightseeing