

International Conference

# **Progress in Organic and Macromolecular Compounds**

30<sup>th</sup> Edition

## **Program**

**Dedicated to the 105<sup>th</sup> anniversary of  
Acad. Cristofor I. Simionescu (1920-2007)**

**ICMPP – Petru Poni Institute of Macromolecular Chemistry  
Iasi | Romania | September 23 - 26, 2025  
<https://icmpp.ro/macroiasi2025/index.php>**

**Edited by**

Marcela MIHAI

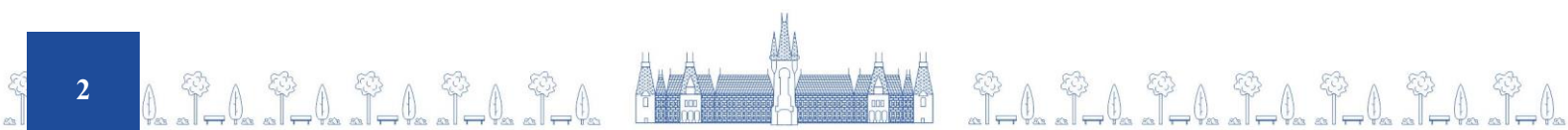
Radu-Dan RUSU

Marius-Mihai ZAHARIA

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**Dear colleagues from Romania and abroad,**

It is our pleasure to invite you to attend at the 30<sup>th</sup> edition of the International Conference Progress in Organic and Macromolecular Compounds, MACRO Iași 2025, a traditional event organized by the Petru Poni Institute of Macromolecular Chemistry, between 23 and 26 September 2025, in Iași.

The International Conference addresses polymer and organic chemists and physicists from academia, research institutes and industry, being intended as a dynamic platform for the presentation and sharing of their research and ideas.

MACRO Iași 2025 gives a broad overview of major topics in organic and polymer synthesis and physics, multifunctional polymeric architectures, engineering of polymeric materials and their applications.

Also, as part of the MACRO Iași conference, the workshop “*POLYSACCHARIDE BASED (BIO)HYBRID NANOSTRUCTURES*” (September 23, 2025) will be organized, to which you are welcome to participate (please contact the organizers - [hybsac.pnrr@icmpp.ro](mailto:hybsac.pnrr@icmpp.ro)).

This meeting could not have been organized without the generous and tireless support and contribution of many individuals and groups within and outside the ICMPP. Therefore, we would like to acknowledge to all the invited lecturers, speakers, board and committee members, chairpersons, sponsors and all the people that have been involved in the organization and presentation of relevant results and perspectives.

**Best wishes for a professionally rewarding conference!**

Valeria HARABAGIU and Marcela MIHAI

*Chairpersons of MACRO Iași 2025*



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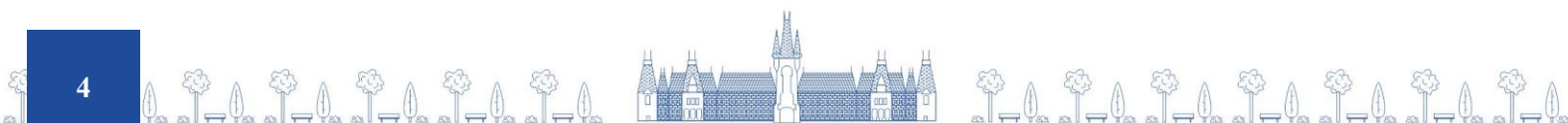
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Tuesday, 23.09.2025		Wednesday, 24.09.2025		Thursday, 25.09.2025		Friday, 26.09.2025	
Workshop HYBSAC		ICMPP Conference Hall		ICMPP Conference Hall		ICMPP Conference Hall	
BCS Hall		ICMPP Conference Hall		ICMPP Conference Hall		ICMPP Conference Hall	
9:00 - 9:15	Opening S. PISPAS	9:00 - 9:15	Opening about Cristofor Simionescu	9:00 - 9:45	PL4. Cristian SILVESTRU	9:00 - 9:45	PL8. Aurel RADULESCU
9:15 - 09:45	W.L1 Theoni GEORGIOU	9:15 - 09:30		9:45 - 10:30	PL5. Theoni GEORGIOU	9:45 - 10:30	PL9. Agnieszka KOWALCZUK
09:45 - 10:15	W.L2 Aurel RADULESCU	09:30 - 10:15	PL1. Marius ANDRUH	10:30 - 11:00	Coffee break & Poster session	10:30 - 11:00	Coffee break & Poster session
10:15 - 10:45	W.L3 Maria Valentina DINU	10:15 - 10:45	Coffee break & Poster session	11:00 - 11:45	PL6. Mariana PINTEALA	11:00 - 11:45	OC17. Ioana-Sabina TRIFAN
10:45 - 11:15	coffee break	10:45 - 11:30	PL2. Ion TIGINYANU	11:45 - 12:15	L4. Marcelina BOCHENEK	11:45 - 12:30	OC18. Catalin-Paul CONSTANTIN
11:15 - 11:45	W.L4 Agnieszka KOWALCZUK	11:30 - 12:00	L1. Corneliu BALAN	12:15 - 12:30	OC10. Camelia MIRON		OC19. Larisa-Maria PETRILA
11:45 - 12:15	W.L5 Sergiu COSERI	12:00 - 12:15	OC1. Mariana CRISTEA				PL10. C. Renzi BEGER
12:15 - 12:30		12:15 - 12:30	OC2. Marius ZAHARIA	12:30 - 14:00	Group photo Lunch break	12:40 - 13:00	Awards and closing
12:15 - 14:00	Lunch break	12:30 - 14:00	Lunch break	14:00 - 14:30	L5. Gabriela IONITA	13:00 - 14:30	Lunch
		14:00 - 14:30	L2. Aurica FARCAS				
			OC3. Irina BUTNARU				
			OC4. Vera-Maria PLATON				
		14:30 - 16:15	OC5. Cristina AL-MATARNEH	14:30 - 16:00	OC13. Ioana-Victoria PLATON		
			OC6. Alexandru Gabriel BUCUR		OC14. Florin BUCATARIU		
			OC7. Irina APOSTOL		OC15. Daniela PAMFIL		
			OC8. Andra-Cristina ENACHE		OC16. Marin-Aurel TROFIN		
		16:15 - 16:45	Coffee break & Poster session	16:00 - 16:30	Coffee break & Poster session		
		16:45 - 17:15	L3. Aatto LAAKSONEN	16:30 - 17:00	L6. Ionel MANGALAGIU		
		17:15 - 18:00	PL3. Michele LAUS	17:00 - 17:45	PL7. Brigitte VOIT		
18:00 - 20:00	Dinner						
				19:00 - 22:00	Dinner Traian Hotel		

Legend:

PLx. Plenary Lecture

Lx. Lecture

OCx. Oral Communication



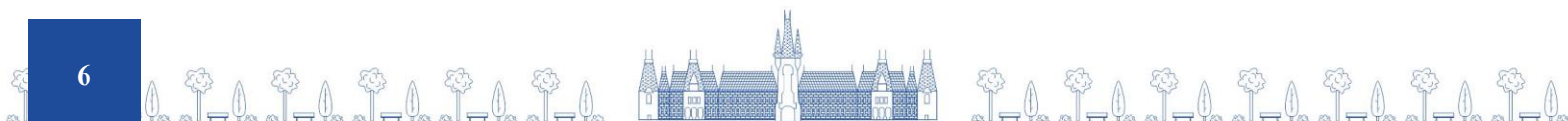
**Part of the presented papers are published in the volume**

*Progress in Organic and Macromolecular Compounds - Proceedings*

ISSN 2810 – 2126 | ISSN-L 2810 – 2126

ISSN 2810 – 2347 (Online version)

<https://icmpp.ro/macroiiasi2025/proceedings.php>



# MACRO Iași 2025



## Oral presentations

- PL** invited lectures (45 min, Q & A included)
- L** lectures (30 min, Q & A included)
- OC** oral contributions (15 min, Q & A included)



## Poster presentations

**PP** posters

*Posters (A1 size, portrait orientation) will be posted after registration and will remain displayed during the entire conference*

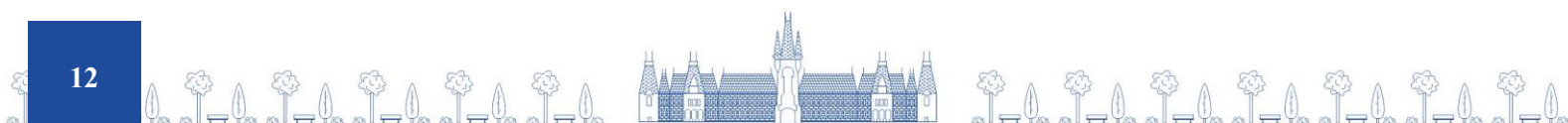


## Language

The conference language is English



# MACRO Iași 2025





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## PROGRAM WORKSHOP HYBSAC

Bogdan C. Simionescu Hall

TUESDAY, September 23	09 <sup>00</sup> – 09 <sup>15</sup>	<b>Opening - Dr. Stergios PISPAS</b>
		09 <sup>00</sup> – 10 <sup>45</sup> <b>Workshop Session 1</b> Chairs: <b>Marcela MIHAI and Stergios PISPAS</b>
	09 <sup>15</sup> – 09 <sup>45</sup>	<b>W.L1. SHOULD WE BE USING WELL-DEFINED POLYMERS OR NOT?</b> Theoni K. GEORGIU <i>Department of Materials, Imperial College London, London, United Kingdom</i>
	09 <sup>45</sup> – 10 <sup>15</sup>	<b>W.L2. POLYMER-PROTEIN COMPLEXES AS VERSATILE CARRIERS FOR TARGETED PROTEIN AND DRUG DELIVERY CHARACTERIZED BY SMALL-ANGLE NEUTRON SCATTERING</b> Aurel RADULESCU <i>Forschungszentrum Jülich GmbH, Jülich Centre for Neutron Science (JCNS) at Heinz Maier-Leibnitz Zentrum (MLZ), Garching, Germany</i>
	10 <sup>15</sup> – 10 <sup>45</sup>	<b>W.L3. MULTIFUNCTIONAL POLYSACCHARIDE-BASED HYBRID HYDROGELS WITH POROSITY TAILORED BY CRYOTROPIC GELATION</b> Maria-Valentina DINU <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
	10 <sup>45</sup> – 11 <sup>15</sup>	<b>Coffee Break</b>
		11 <sup>15</sup> – 12 <sup>15</sup> <b>Workshop Session 2</b> Chairs: <b>Marcela MIHAI and Stergios PISPAS</b>
	11 <sup>15</sup> – 11 <sup>45</sup>	<b>W.L4. REACHING FOR THE STARS WITH NEW GENERATIONS OF FUNCTIONAL POLYMETHACRYLATES</b> Agnieszka KOWALCZUK <i>Centre of Polymer and Carbon Materials, Polish Academy of Sciences, Zabrze, Poland</i>
	11 <sup>45</sup> – 12 <sup>15</sup>	<b>W.L5. FROM TREES TO TECH: THE SILENT REVOLUTION OF CELLULOSE NANOFIBERS IN BIOELECTRONICS</b> Sergiu COSERI <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
	12 <sup>15</sup> – 14 <sup>00</sup>	<b>Lunch Break</b>





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TUESDAY, September 23

14<sup>00</sup> – 15<sup>15</sup>

**Workshop Session 3**

**Chairs: Marcela MIHAI and Stergios PISPAS**

14<sup>00</sup> – 14<sup>15</sup> **W.OC1. CHITOSAN-*g*-POLY(*N*-ISOPROPYLACRYLAMIDE) POLYPLEXES WITH DNA MOLECULES OF DIFFERENT LENGTHS**

Maria KARAYIANNI,<sup>1</sup> Elena-Daniela LOTOS,<sup>1</sup>  
Marcela MIHAI,<sup>1</sup> Stergios PISPAS<sup>1,2</sup>

14<sup>15</sup> – 14<sup>30</sup> **W.OC2. GREEN SYNTHESIS OF GOLD NANOPARTICLES STABILIZED BY AMYLOPECTIN-*g*-POLY (ACRYLIC ACID) COPOLYMER**

Melinda-Maria BAZARGHIDEANU,<sup>1</sup> Marius-Mihai ZAHARIA,<sup>1</sup>  
Alina-Petronela MORARU,<sup>1</sup> Florin BUCATARIU,<sup>1</sup>  
Stergios PISPAS,<sup>1,2</sup> Marcela MIHAI<sup>1</sup>

14<sup>30</sup> – 14<sup>45</sup> **W.OC3. NEW THERMORESPONSIVE COMPOSITES CONTAINING CHITOSAN-*g*-PNIPAM AND *IN SITU* FORMED GOLD NANOPARTICLES**

Marius-Mihai ZAHARIA,<sup>1</sup> Melinda-Maria BAZARGHIDEANU,<sup>1</sup>  
Alina-Petronela MORARU,<sup>1</sup> Florin BUCATARIU,<sup>1</sup>  
Marcela MIHAI,<sup>1</sup> Stergios PISPAS<sup>1,2</sup>

14<sup>45</sup> – 15<sup>00</sup> **W.OC4. SYNTHESIS AND CHARACTERIZATION OF pH-RESPONSIVE GRAFT COPOLYMER BASED ON POTATO STARCH AND POLY (ACRYLIC ACID)**

Diana Felicia LOGHIN,<sup>1</sup> Stefania RACOVITA,<sup>1</sup> Silvia VASILIU,<sup>1</sup>  
Mihaela Iuliana AVADANEI,<sup>1</sup> Ana-Maria MACSIM,<sup>1</sup>  
Melinda-Maria BAZARGHIDEANU,<sup>1</sup>  
Stergios PISPAS,<sup>1,2</sup> Marcela MIHAI<sup>1</sup>

15<sup>00</sup> – 15<sup>15</sup> **W.OC5. NEW POLYSACCHARIDE GRAFTING METHOD PAIRING CHITOSAN WITH PNIPAM BEARING CARBOXYL END GROUP**

Elena-Daniela LOTOS,<sup>1</sup> Maria KARAYIANNI,<sup>1</sup>  
Marcela MIHAI,<sup>1</sup> Stergios PISPAS<sup>1,2</sup>

<sup>1</sup>*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

<sup>2</sup>*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*

15<sup>15</sup> – 15<sup>45</sup> **Coffee Break**

15<sup>45</sup> – 17<sup>00</sup>

**Workshop Session 4**

**ROUND TABLE**

18<sup>00</sup> – 20<sup>00</sup> **Dinner**



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## POLYSACCHARIDE BASED (BIO)HYBRID NANOSTRUCTURES (HYBSAC)



<https://icmpp.ro/hybsac/>

Call: PNRR-III-C9-2022 – I8

Contract 760082/23.05.2023, code CF201/28.11.2022

Project director: Dr. Asterios (Stergios) PISPAS

Project manager: Dr. Marcela MIHAI

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