



ALEXANDRU IOAN CUZA  
UNIVERSITY of IAȘI



FACULTY of CHEMISTRY

# Conference Program



25-26 October 2018, Iasi, Romania



# IasiCHEM 2018

## Faculty of Chemistry Conference

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**Prof. Ionel MANGALAGIU**

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25-26 October 2018, Iasi  
Romania



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## Presentation time (discussion included)

- Plenary Conference: 40 minutes
- Oral Communication: 20 minutes

## Posters Program

- Poster number will be displayed on the poster panel.
- Posters contributions from Session I will be placed on the poster panel Thursday, October 25<sup>th</sup>, morning during the registration time from 8<sup>30</sup> to 9<sup>00</sup>, and will be removed Thursday after 18<sup>30</sup>.
- Posters contributions from Session II will be placed on the poster panel Friday, October 26<sup>th</sup>, morning from 8<sup>30</sup> to 9<sup>00</sup> and will be removed Friday after 18<sup>30</sup>.
- Presence of authors is required.

# Scientific Program

## Day 1

Thursday, October 25<sup>th</sup>, Aula Magna “Mihai Eminescu”

- 8<sup>30</sup>-9<sup>00</sup> **Registration of the participants**  
**Chairpersons: Prof. Cecilia ARSENE**  
**Prof. Ionel MANGALAGIU**
- 9<sup>00</sup>-9<sup>10</sup> **Opening Ceremony**  
Dean Prof. Aurel PUI
- 9<sup>10</sup>-9<sup>30</sup> **Our Professors - Celebration Moment**
- 9<sup>30</sup>-9<sup>50</sup> **Personalitati ale chimiei iesene din ultimul secol**  
Prof. Aurel PUI, Dean  
*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*
- 9<sup>50</sup>-10<sup>00</sup> **Nobel Prize for Chemistry 2018**  
Assoc. Prof. Vasile-Robert GRADINARU  
*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*
- 10<sup>00</sup>-10<sup>30</sup> **RubikEDU and entrepreneurs dedicated programs**  
Andrei CARABELEA  
Valentin Iulian TOC  
*ADR Nord-Est Piatra Neamt, Romania*
- 10<sup>30</sup>-11<sup>00</sup> **Easy access to scientific data - SCI Finder**  
Veli-Pekka HYTTINEN  
*Regional Marketing Manager for SciFinder*
- 11<sup>00</sup>-11<sup>30</sup> **Coffee Break – The Hall of the Echoing Footsteps**  
**Kober’s Video spot - Advertising Opportunities**

## Session 1

Aula Magna “Mihai Eminescu”

**Chairpersons: Prof. Doina HUMELNICU**  
**Prof. Gabi DROCHIOIU**

- IC-01** **Pagini din istoria invatamantului superior de chimie timisorean**  
11<sup>30</sup>-12<sup>10</sup>  
Vlad Andrei CHIRIAC  
*West University of Timisoara, Faculty of Chemistry Biology Geography*

**OC-01 Nuclear safety and security of the reprocessed fuel in Europe (The Euratom Safeguard)**  
12<sup>10</sup>-12<sup>30</sup>

Octavian S. VALU, Karin CASTELEYN, Lily DUINSLAEGER, Evelyn ZULEGER, Razvan Aurel BUDA, Klaus LUTZENKIRCHEN

*European Commission, JRC Karlsruhe, Directorate G – Nuclear Safety and Security*

**OC-02 Thermodynamic and kinetic principles of young wines during cold stabilization**  
12<sup>30</sup>-12<sup>50</sup>

Ecaterina COVACI, Doina FOCSA, Georgeta MOGA, Alexandra LESANU

*Technical University of Moldova, Department of Oenology, Chisinau, Republic of Moldova*

**OC-03 Relevant kinetic data for atmospheric degradation of selected volatile organic compounds: ESC-Q-UAIC Simulation Chamber Studies**  
12<sup>50</sup>-13<sup>10</sup>

Romeo-Iulian OLARIU<sup>1,2</sup>, Cecilia ARSENE<sup>1,2</sup>

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

<sup>2</sup>*“Alexandru Ioan Cuza” University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region*

13<sup>10</sup>-15<sup>00</sup> **Lunch – The Hall of the Echoing Footsteps**

**Session 2**

**Lecture Hall P3 – Faculty of Chemistry**

**Chairpersons: Assoc. Prof. Simona CUCU-MAN**

**Prof. Romeo-Iulian OLARIU**

**IC-02 Synthesis, structure and antimicrobial activity of new norbdanic compounds with heterocyclic structural units**  
15<sup>00</sup>-15<sup>40</sup>

Aulina ARICU<sup>1</sup>, Alexandru CIOCARLAN<sup>1</sup>, Lidia LUNGU<sup>1</sup>, Caleria CUCICOVA<sup>1</sup>, Elena SECARA<sup>1</sup>, Ionel MANGALAGIU<sup>2</sup>, Nicoleta VORNICU<sup>3</sup>

<sup>1</sup>*Academy of Sciences of Moldova, Institute of Chemistry, Chisinau, Republic of Moldova*

<sup>2</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

<sup>3</sup>*The Metropolitanate of Moldavia and Bukovina, TABOR Metropolitan Center of Research*



**OC-04**     **Synthesis of new decahydropyrrolo[2,1,5-  
15<sup>40</sup>-16<sup>00</sup> cd]indolizin-6-one derivatives**

Dalila BELEI<sup>1</sup>, Adriana CHIRIAC<sup>2</sup>, Elena BICU<sup>1</sup>, Sergiu SHOVA<sup>2</sup>

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

<sup>2</sup>*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-05**     **Cationic amphiphilic dextran derivatives and their  
16<sup>00</sup>-16<sup>20</sup> applications**

Magdalena C. STANCIU, Marieta NICHIFOR, Georgeta MOCANU

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-06**     **What link can NMR Spectroscopy have with AFM  
16<sup>20</sup>-16<sup>40</sup> Microscopy? Unraveling complex configurational  
and supramolecular organization in conjugated  
polymers**

Gabriela Liliana AILIESEI, Luminita CIANGA, Anca-Dana BENDREA, Elena-Gabriela HITRUC, Ioan CIANGA

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-07**     **SEM-EDX pigment analysis of Stefan Luchian  
16<sup>40</sup>-17<sup>00</sup> heritage paintings**

Mioara MURARIU, Andrei Victor OANCEA, Mihaela OLARU

*“Petru Poni” Institute of Macromolecular Chemistry*

**17<sup>00</sup>-17<sup>30</sup> Coffee Break – The Hall of the Echoing Footsteps  
Kober’s Video spots - Advertising Opportunities**

**17<sup>30</sup>-18<sup>30</sup> Poster Session I**

**19<sup>00</sup> Cocktail – Majestic Hotel**



## POSTER SESSION I

**Thursday, October 25<sup>th</sup> - The Hall of the Echoing Footsteps**

**PI-01 Mechano-chemical changes of the immunoglobulin molecule under tensile loads**

Simona BUTAN<sup>1</sup>, Veronica FILIMON<sup>2</sup>, Rodica-Mihaela DINICA<sup>1</sup>  
<sup>1</sup>"Dunarea de Jos" University of Galati, Faculty of Science and Environment, Chemistry, Physics and Environment Department  
<sup>2</sup>"Dunarea de Jos" University of Galati, Cross-Border Faculty of Humanities, Economics and Engineering

**PI-02 GC-MS investigation of phytochemicals in different part of *Nymphaea alba* species**

Mihaela CUDALBEANU, Ioana O. GHINEA, Bianca FURDUI, Rodica M. DINICA  
"Dunarea de Jos" University of Galati, Department of Chemistry, Physics and Environment

**PI-03 Preliminary phytochemical analysis of the species *Cucumis metuliferus***

Anna CAZANEVSCAIA, Rodica DINICA  
"Dunarea de Jos" University of Galati, Department of Chemistry, Physics and Environment

**PI-04 Chemical composition, antimicrobial activity and chemoinformatics study of cinnamon (*Cinnamomum zeylanicum*) extract**

Gheorghe-Lucian IRIMIA<sup>1</sup>, Corina DUDA-SEIMAN<sup>1</sup>, Daniel-Marius DUDA-SEIMAN<sup>2</sup>  
<sup>1</sup>West University of Timisoara, Department of Biology-Chemistry  
<sup>2</sup>"Victor Babes" University of Medicine and Pharmacy

**PI-05 Enzymatic dosing of honey**

Andreea-Daniela MARINICA, Alexandra SAVU, Andreea DONISE, Emanuela Mihaela CRACIUN  
University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science

**PI-06 Antioxidant activity of different fractions of aromatic herbs**

Fanica BALANESCU, Ioana Otilia GHINEA, Bianca FURDUI, Rodica Mihaela DINICA  
"Dunarea de Jos" University of Galati, Faculty of Science and Environment, Chemistry, Physics and Environment Department

**PI-07 Heavy metal-induced essential oil content changes of thyme**

Radu NECULA<sup>1,2</sup>, Elvira GILLE<sup>1,2</sup>, Camelia STEFANACHE<sup>1</sup>, Marius ZAHARIA<sup>2</sup>, Gabi DROCHIOIU<sup>2</sup>  
<sup>1</sup>National Institute of Research and Development for Biological Sciences Bucharest/"Stejarul" Biological Research Center  
<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

**PI-08 Total mineralization of malachite green dye by advanced oxidation processes**

Diana-Carmen MIRILA<sup>1,2</sup>, Madalina-Stefania PIRVAN<sup>1</sup>, Nicoleta PLATON<sup>1</sup>, Mohamed Amine DIDI<sup>2</sup>, Ileana-Denisa NISTOR<sup>1</sup>, Abdelkrim AZZOUZ<sup>3</sup>

<sup>1</sup>"Vasile Alecsandri" University of Bacau; Department of Chemical and Food Engineering

<sup>2</sup>Abou Bekr Belkaid University of Tlemcen, Department of Chemistry, Algeria

<sup>3</sup>University of Quebec in Montreal, NanoQAM Research Centre, Department of Chemistry, Canada

**PI-09 Retention of pyrene on functionalized anionic clays - layered double hydroxides in wastewater treatment**

Madalina-Stefania PIRVAN<sup>1,2</sup>, Diana-Carmen MIRILA<sup>1</sup>, Nicoleta PLATON<sup>1</sup>, Laurance PIRAULT-ROY<sup>2</sup>, Rachid BRAHMI<sup>3</sup>, Mohamed Amine DIDI<sup>4</sup>, Ileana Denisa NISTOR<sup>1</sup>

<sup>1</sup>"Vasile Alecsandri" University of Bacau; Department of Chemical and Food Engineering <sup>2</sup>University of Poitiers; Institute of Chemistry of Poitiers: Materials and Natural Resources, Laboratory, France

<sup>3</sup>Chouaib Doukkali University, Faculty of Sciences, Department of Chemistry, Morocco

<sup>4</sup>Abou Bekr Belkaid University of Tlemcen, Department of chemistry, Laboratory of separation and purification technologies, Algeria

**PI-10 Rapid analysis of Rare Earth Elements from solid samples by using on-line dissolution and Inductively Coupled Plasma – Mass Spectrometry**

Laurentiu-Valentin SOROAGA<sup>1,2</sup>, Cecilia ARSENE<sup>1,2</sup>, Iuliana Gabriela BREABAN<sup>2,3</sup>, Elena Diana BOBRIC<sup>2</sup>, Romeo-Iulian OLARIU<sup>1,2</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region

<sup>3</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Geography and Geology

**PI-11 Attempts to characterize the organic aerosols using an Aerodyne High-Resolution Aerosol Mass Spectrometer**

Cornelia AMARANDEI<sup>1</sup>, Alina Giorgiana GALON (NEGRU)<sup>1</sup>, Véronique RIFFAULT<sup>2</sup>, Alexandre TOMAS<sup>2</sup>, Marius DUNCIANU<sup>2</sup>, Iustinian Gabriel BEJAN<sup>1,3</sup>, Romeo-Iulian OLARIU<sup>1,3</sup>, Cecilia ARSENE<sup>1,3</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

<sup>2</sup>IMT Lille Douai, France

<sup>3</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region

**PI-12 Biological activity of electrospun polyimide nanofibers with gold nanoparticles**

Diana SERBEZEANU<sup>1</sup>, Alina-Mirela IPATE<sup>1</sup>, Tachita VLAD-BUBULAC<sup>1</sup>, Elena HAMCIUC<sup>1</sup>, Corneliu HAMCIUC<sup>1</sup>, Ion SAVA<sup>1</sup>, Magdalena AFLORI<sup>1</sup>, Maria BUTNARU<sup>2</sup>

<sup>1</sup>"Petru Poni" Institute of Macromolecular Chemistry

*<sup>2</sup>“Grigore T. Popa” University of Medicine and Pharmacy, Faculty of Medical Bioengineering*

- PI-13 Adsorption studies of anionic dyes on a dextran hydrogel**  
Magdalena C. STANCIU, Marieta NICHIFOR  
*“Petru Poni” Institute of Macromolecular Chemistry*
- PI-14 Synthesis and characterization of photocrosslinked acrylic coatings containing noble metal nanoparticles (Au, Ag, Au/Ag) and testing of their photocatalytic potential**  
Lenuta STROEA, Violeta MELINTE, Andreea-Laura CHIBAC, Tinca BURUIANA, Emil C. BURUIANA  
*“Petru Poni” Institute of Macromolecular Chemistry*
- PI-15 Complex formation ability and cytotoxic activity of siloxane/silane Schiff bases**  
Ionela GRECU<sup>1</sup>, Mirela-Fernanda ZALTARIOV<sup>2</sup>, Mihaela AVADANEI<sup>2</sup>, Dragos PEPTANARIU<sup>3</sup>  
*<sup>1</sup>“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
*<sup>2</sup>“Petru Poni” Institute of Macromolecular Chemistry*  
*<sup>3</sup>“Petru Poni” Institute of Macromolecular Chemistry, Centre of Advanced Research in Bionanoconjugates and Biopolymers (IntelCentru)*
- PI-16 Comparative study between antitumor activity of specifically modified thiosemicarbazones and indoloquinoline/indolobenzazepine derivatives**  
Mirela-Fernanda ZALTARIOV<sup>1</sup>, Ionela GRECU<sup>2</sup>  
*<sup>1</sup>“Petru Poni” Institute of Macromolecular Chemistry*  
*<sup>2</sup>“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*
- PI-17 Complex formation ability between thiosemicarbazone ligands and platinum ions: stoichiometry, stability constants and kinetic study**  
Madalin DAMOC<sup>1</sup>, Alexandru STOICA<sup>1</sup>, Ionela GRECU<sup>1</sup>, Mirela-Fernanda ZALTARIOV<sup>2</sup>, Maria CAZACU<sup>2</sup>  
*<sup>1</sup>“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
*<sup>2</sup>“Petru Poni” Institute of Macromolecular Chemistry*
- PI-18 Cellulose-based hydrogels: design, synthesis and morphological aspects**  
Daniela RUSU, Diana CIOLACU  
*“Petru Poni” Institute of Macromolecular Chemistry*
- PI-19 Spectrophotometric evaluation of versatility of thiosemicarbazones in recovery and valorization of platinum ions**  
Alexandru STOICA<sup>1</sup>, Madalin DAMOC<sup>1</sup>, Ionela GRECU<sup>1</sup>, Mirela-Fernanda ZALTARIOV<sup>2</sup>, Maria CAZACU<sup>2</sup>  
*<sup>1</sup>“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
*<sup>2</sup>“Petru Poni” Institute of Macromolecular Chemistry*
- PI-20 Rheological and yield stress measurements of cosmetic creams based on collagen**  
Iulian AVRAMIUC<sup>1</sup>, Roberta-Diana DIAC<sup>1</sup>, Maricel DANU<sup>1,2</sup>, Constanta IBANESCU<sup>1,2</sup>

<sup>1</sup>"Gheorghe Asachi" Technical University of Iasi

<sup>2</sup>"Petru Poni" Institute of Macromolecular Chemistry

**PI-21 New cycloaddition reactions of 4-(2-amino-2-oxoethyl)benzo[f]quinolinium iodide: a comparative study**

Vasilichia ANTOCI<sup>1</sup>, Dorina AMARIUCAI-MANTU<sup>1</sup>, Gheorghita ZBANCIOC<sup>1</sup>, Costel MODOVEANU<sup>1</sup>, Violeta MANGALAGIU<sup>2</sup>, Catalina Ionica CIOBANU<sup>1</sup>, Ionel MANGALAGIU<sup>1</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region

**PI-22 Synthesis and characterization of some novel hybrids based on pyridine/quinoline and imidazole/benzimidazole moieties**

Dumitrelea CUCU, Dorina AMARIUCAI-MANTU, Catalina Ionica CIOBANU, Ionel MANGALAGIU

"Alexandru Ioan Cuza" University, Faculty of Chemistry

**PI-23 Synthesis of new pyrrolodiazine with fluorescent properties**

Gheorghita ZBANCIOC<sup>1</sup>, Costel MOLDOVEANU<sup>1</sup>, Mihai-Ady ZVANCU<sup>1</sup>, Catalina CIOBANU<sup>1</sup>, Vasilichia ANTOCI<sup>1</sup>, Violeta MANGALAGIU<sup>2,3</sup>, Dorina AMARIUCAI-MANTU<sup>1</sup>, Ionel MANGALAGIU<sup>1</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

<sup>2</sup>"Stefan cel Mare" University of Suceava, Faculty of Food Engineering

<sup>3</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region

**PI-24 Synthesis of new aza-heterocyclic compounds designed as quadruplex DNA ligands and their anticancer activity**

Monica C. SARDARU<sup>1</sup>, Ionel MANGALAGIU<sup>1</sup>, Ramona DANAC<sup>1</sup>, Violeta MANGALAGIU<sup>2</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region

**PI-25 Coumarin derivatives**

Bianca-Iustina ANDREICA, Brindusa-Alina PETRE, Elena BICU, Dalila BELEI

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

**PI-26 Formylation of 7-(benzyloxy)-4-methyl-coumarin using Vilsmeier-Haack reagent**

Alexandru ANISIEI, Brindusa-Alina PETRE, Elena BICU, Dalila BELEI

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

## Day 2

Friday, October 26<sup>th</sup>, Lecture Hall P3– Faculty of Chemistry

08<sup>30</sup>-09<sup>00</sup> **Registration of the participants**  
**Lecture Hall P3 - Faculty of Chemistry**

### Session 1

**Chairpersons: Assoc. Prof. Dalila BELEI**  
**Assoc. Prof. Costel**  
**MOLDOVEANU**

**PC-01** **Role of cross-linking in the design of polyelectrolyte layer-by-layer assemblies for loading/release of bioactive compounds**  
09<sup>00</sup>-09<sup>40</sup>

Claudiu-Augustin GHIORGHITA, Florin BUCATARIU,  
Ecaterina Stela DRAGAN  
*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-08** **Bacteriorhodopsin – a key compound in Bioenergetics**  
09<sup>40</sup>-10<sup>00</sup>

Gabi DROCHIOIU  
*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

**OC-09** **Characterization of novel carboxymethyl starch graft poly(lactic-co-glycolic acid) copolymers for possible biomedical applications**  
10<sup>00</sup>-10<sup>20</sup>

Rodica-Denise LIPSA, Gabriela- Liliana AILIESEI, Alina DIACONU, Nita TUDORACHI, Anton AIRINEI  
*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-10** **Acetylhydrazine bis-pyridazinones: NMR investigation of stereochemistry**  
10<sup>20</sup>-10<sup>40</sup>

Dorina Amariuca-Mantu<sup>1</sup>, Vasilichia Antoci<sup>1</sup>, Catalina Ionica Ciobanu<sup>1</sup>, Alina Nicolescu<sup>2</sup>, Calin Deleanu<sup>2</sup>, Ionel Mangalagiu<sup>1</sup>  
<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
<sup>2</sup>*“Petru Poni” Institute of Macromolecular Chemistry*



10<sup>40</sup>-10<sup>50</sup> **„De la chimie la culoare, ipostaze florale” –  
Expozitie de pictura**

Maricica ASTEFANOAEI

*Alexandru Ioan Cuza High School, Iasi*

10<sup>50</sup>-11<sup>00</sup> **„Pierdut in amintiri” - Lansare carte**

Sandu CIBOTARU

*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

11<sup>00</sup>-11<sup>30</sup> **Coffee Break – The Hall of the Echoing Footsteps**

**Kober’s Video spot - Advertising Opportunities**

## Session 2

**Chairpersons: Assoc. Prof. Doina LUTIC**

**Assoc. Prof. Robert GRADINARU**

**OC-11 Atmospheric chemistry of benzoquinones**

11<sup>30</sup>-11<sup>50</sup>

Iustinian BEJAN<sup>1,2</sup>, Romeo-Iulian OLARIU<sup>1,2</sup>, Ian BARNES<sup>3</sup>, Peter WIESEN<sup>3</sup>, John WENGER<sup>4</sup>

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

<sup>2</sup>*“Alexandru Ioan Cuza” University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region*

<sup>3</sup>*Bergische Universität Wuppertal, Germany*

<sup>4</sup>*University College Cork, Department of Chemistry and Environmental Research Institute, Ireland*

**OC-12 Photocatalytic degradation of Malachite green dye under visible light using polymeric films containing synthesized ZnO and ZnO-SnO<sub>2</sub> particles**

11<sup>50</sup>-12<sup>10</sup>

Viorica Elena PODASCA

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-13 Reusing of copper(II)-loaded macroporous composite materials based on chitosan as catalysts in oxidative degradation of Methyl Orange**

12<sup>10</sup>-12<sup>30</sup>

Ionel Adrian DINU, Maria Marinela LAZAR, Maria Valentina DINU, Ecaterina Stela DRAGAN

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-14 Photocatalytic materials used for p-nitroaniline reduction: hybrid metal-polymer composites vs metal-free materials**

12<sup>30</sup>-12<sup>50</sup>

Andreea-Laura CHIBAC, Violeta MELINTE  
*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-15** **Structural studies of products obtained on the**  
**12<sup>50</sup>-13<sup>10</sup>** **activation of thiosemicarbazone derivatives ligand**  
**with 3d transition metals**

Oleg PALAMARCIUC<sup>1,2</sup>

<sup>1</sup>Moldova State University, Chisinau, Republic of Moldova

<sup>2</sup>Polivalent-95 SRL, Chisinau, Republic of Moldova

13<sup>10</sup>-14<sup>30</sup> **Lunch Break**

### Session 3

**Chairpersons: Assoc. Prof. Nicoleta CORNEI**  
**Prof. Aurel PUI**

**PC-2** **Macroporous hydrogels: preparation, properties,**  
**14<sup>30</sup>-15<sup>10</sup>** **and applications**

Maria Valentina DINU, Ecaterina Stela DRAGAN

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-16** **Donor-acceptor copolymers containing 3,6- or 2,7-**  
**15<sup>10</sup>-15<sup>30</sup>** **disubstituted carbazole and perylene diimide-**  
**synthesis, characterization, photophysical and**  
**electrochemical properties**

Ana-Maria SOLONARU, Mircea GRIGORAS

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-17** **Atomic force microscopy study of pore generation**  
**15<sup>30</sup>-15<sup>50</sup>** **in thermostable polymers by addition of non-solvent**  
**or polymer additive**

Iuliana STOICA, Raluca Marinica ALBU, Andreea Irina BARZIC

*“Petru Poni” Institute of Macromolecular Chemistry*

**OC-18** **Synthesis and properties of some spin crossover**  
**15<sup>50</sup>-16<sup>10</sup>** **materials based on Fe(II) and Fe(III)**

Tatiana PALAMARCIUC<sup>1,2</sup>, Sergiu SHOVA<sup>3</sup>, Eugenia POPOVICI<sup>1,2,4</sup>, Oleg PALAMARCIUC<sup>1,2</sup>

<sup>1</sup>Moldova State University, Chisinau, Republic of Moldova

<sup>2</sup>Polivalent-95 SRL, Chisinau, Republic of Moldova

<sup>3</sup>*“Petru Poni” Institute of Macromolecular Chemistry*



<sup>4</sup>*Academy of Sciences of Moldova, Institute of Chemistry, Chisinau, Republic of Moldova*

**OC-19** **Chemically stable perovskites with developed surface for specific application**  
16<sup>10</sup>-16<sup>30</sup>

Adrian Iulian BORHAN<sup>1</sup>, Magdalena GROMADA<sup>2</sup>

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

<sup>2</sup>*Institute of Power Engineering, Ceramic Department CEREL, Boguchwała, Poland*

**16<sup>30</sup>-17<sup>00</sup> Coffee Break – The Hall of the Echoing Footsteps**

**Kober’s Video spots - Advertising Opportunities**

**17<sup>00</sup>-18<sup>00</sup> Poster Session II**

**18<sup>15</sup>-18<sup>30</sup> Awards for the best posters**

**Closing remarks**



## POSTER SESSION II

### Friday, October 26<sup>th</sup> - The Hall of the Echoing Footsteps

- PII-01 Kinetic study of the gas-phase reaction of OH radicals with 3-methyl-2-buten-1-ol at 298 K and atmospheric pressure**  
Ana-Maria RUSU<sup>1</sup>, Claudiu ROMAN<sup>1</sup>, Cecilia ARSENE<sup>1,2</sup>, Iustinian Gabriel BEJAN<sup>1,2</sup>, Romeo-Iulian OLARIU<sup>1,2</sup>  
<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry  
<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region
- PII-02 Rate coefficients for the gas-phase OH radical initiated oxidation of 2,3,5-trimethylfuran and 2,3,4,5-tetramethylfuran in atmospheric conditions**  
Claudiu ROMAN<sup>1</sup>, Cecilia ARSENE<sup>1,2</sup>, Romeo-Iulian OLARIU<sup>1,2</sup>, Iustinian BEJAN<sup>1,2</sup>  
<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry  
<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region
- PII-03 Physico-chemical parameters of honey from Iasi market (North-Eastern Romania)**  
Aida ALBU<sup>1,2</sup>, Ioan Mircea POP<sup>1</sup>, Simona-Maria CUCU-MAN<sup>2</sup>  
<sup>1</sup>"Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi, Faculty of Animal Sciences  
<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
- PII-04 Ultrasound-assisted synthesis of mesoporous titania for efficient adsorbents and photocatalysts obtaining**  
Cristina COROMELCI, Elvira MAHU, Iuliean ASAFTEI, Doina LUTIC, Maria IGNAT  
 "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
- PII-05 Competition between ferromagnetism and spin glass: the key for large magnetoresistance in polycrystalline Ln<sub>0.65</sub>Sr<sub>0.35</sub>Mn<sub>1-x</sub>TxO<sub>3</sub> (T = Co, Sc) manganites**  
Nicoleta CORNEI<sup>1</sup>, Carmen MITA<sup>1</sup>, Mihail-Liviu CRAUS<sup>2,3</sup>  
<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry  
<sup>2</sup>Joint Institute for Nuclear Physics, Russia  
<sup>3</sup>National Institute of Research and Development for Technical Physics
- PII-06 Synthesis and structure of manganese complex with N<sub>1</sub>, N<sub>5</sub>-bis-salicylidene-S-CH<sub>3</sub>-isothiocarbohydrazone**  
Eugenia POPOVICI<sup>1,2</sup>, Tatiana PALAMARCIUC<sup>1,3</sup>, Sergiu SHOVA<sup>4</sup>, Oleg PALAMARCIUC<sup>1,3</sup>  
<sup>1</sup>Moldova State University, Chisinau, Republic of Moldova  
<sup>2</sup>Academy of Sciences of Moldova, Institute of Chemistry, Chisinau, Republic of Moldova  
<sup>3</sup>Polivalent-95 SRL, Chisinau, Republic of Moldova  
<sup>4</sup>"Petru Poni" Institute of Macromolecular Chemistry

- PII-07 Synthesis and characterization of the copper(II) complexes of 4-methylimidazole-5-carbaldehyde thiosemicarbazone derivatives**  
Elena STRATULAT<sup>1</sup>, Sergiu SHOVA<sup>2</sup>, Aurel PUI<sup>3</sup>, Vladimir ARION<sup>4</sup>, Angela SIRBU<sup>1</sup>, Ion CORJA<sup>1</sup>, Oleg PALAMARCIUC<sup>1</sup>  
<sup>1</sup>Moldova State University, Faculty of Chemistry and Chemical Technology, Republic of Moldova<sup>2</sup>"Petru Poni" Institute of Macromolecular Chemistry  
<sup>3</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry  
<sup>4</sup>University of Vienna, Faculty of Chemistry, Austria
- PII-08 Proton dissociation constants of 5-sulfonate-salicylaldehyde thiosemicarbazone derivatives**  
Angela SIRBU, Oleg PALAMARCIUC  
Moldova State University, Faculty of Chemistry and Chemical Technology, Republic of Moldova
- PII-09 Preliminary analysis of emulsions based on beeswax - rosemary oil used for manufacturing of value-added textiles for aromatherapy and skin care benefits**  
Carmen ZAHARIA<sup>1</sup>, Angela DANILA<sup>2</sup>, Emil Ioan MURESAN<sup>3</sup>, Daniela SUTEU<sup>3</sup>  
<sup>1</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management  
<sup>2</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Textiles, Leather and Industrial Management, Department of Textiles Chemical Finishing Processing  
<sup>3</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Organic, Biochemical and Food Engineering
- PII-10 Economical solutions for improvement of solids separation in wastewater treatment systems by integrated microscreening**  
Carmen ZAHARIA  
"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management
- PII-11 Biosorbent based on nonliving biomass for textile dye retention from aqueous media**  
Daniela SUTEU<sup>1</sup>, Alexandra Cristina BLAGA<sup>1</sup>, Carmen ZAHARIA<sup>2</sup>, Luiza Ioana HORCIU<sup>1</sup>  
<sup>1</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Organic, Biochemical and Food Engineering  
<sup>2</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management
- PII-12 Structural changes of cerium doped copper ferrites during sintering process**  
Tiberiu ROMAN<sup>1,2</sup>, Marius ZAHARIA<sup>2,3</sup>, Aurel PUI<sup>2</sup>, Sergiu STANCIU<sup>1</sup>  
<sup>1</sup>"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering  
<sup>2</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry  
<sup>3</sup>"Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Faculty of Horticulture

- PII-13 The rheological study of some waterborne coatings**  
Andreea MIHAILA<sup>1</sup>, Gabriela LISA<sup>1</sup>, Maricel DANU<sup>1,2</sup>, Constanta IBANESCU<sup>1,2</sup>  
<sup>1</sup>*“Gheorghe Asachi” Technical University of Iasi*  
<sup>2</sup>*“Petru Poni” Institute of Macromolecular Chemistry Iasi*
- PII-14 A new filler material from advanced capitalization of waste**  
Liliana Genuta IVANICIUC<sup>1</sup>, Daniel Mircea SUTIMAN<sup>1</sup>, Gabriela CIOBANU<sup>1</sup>, Olga KOTOVA<sup>2</sup>, Consuelo GOMEZ DE CASTRO<sup>3</sup>, Maria HARJA<sup>1</sup>  
<sup>1</sup>*“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection*  
<sup>2</sup>*Institute of Geology of the Komi Science Center of the Ural Branch of the Russian Academy of Sciences, Russia*  
<sup>3</sup>*Complutense University of Madrid, Faculty of Chemical Science, Spain*
- PII-15 Geopolymerization of power plant fly ash for heavy metals cementation**  
Laura Andreea POPESCU<sup>1</sup>, Ramona Carla CIOCINTA<sup>2</sup>, Doina LUTIC<sup>3</sup>, Gabriela CIOBANU<sup>1</sup>, Igor CRETESCU<sup>1</sup>, Olga KOTOVA<sup>4</sup>, Maria HARJA<sup>1</sup>  
<sup>1</sup>*“Gheorghe Asachi” Technical University of Iasi, Faculty of Environmental Engineering and Management*  
<sup>2</sup>*Regional directorate of road and bridge from Iasi*  
<sup>3</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
<sup>4</sup>*Institute of Geology of the Komi Science Center of the Ural Branch of the Russian Academy of Sciences, Russia*
- PII-16 Synthesis method of oxide nanomaterials for different applications**  
Amalia Maria SESCU<sup>1</sup>, Lidia FAVIER<sup>2</sup>, Doina LUTIC<sup>3</sup>, Gabriela CIOBANU<sup>1</sup>, Maria HARJA<sup>1</sup>  
<sup>1</sup>*“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection*  
<sup>2</sup>*Superior National School of Chemistry of Rennes, Department of Chemistry, France*  
<sup>3</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*
- PII-17 Synthesis and structure of new pyrrolo[1,2-a]quinoline and pyrrolo[2,1-a]isoquinoline derivatives**  
Cristina M. AL MATARNEH<sup>1,2</sup>, Ramona DANAC<sup>1</sup>, Mircea O. APOSTU<sup>1</sup>, Ionel MANGALAGIU<sup>1</sup>  
<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*  
<sup>2</sup>*“Petru Poni” Institute of Macromolecular Chemistry*
- PII-18 Hydrophobic modified poly(maleic anhydride-alt-styrene) for the preparation of nanosized particles**  
Irina Mihaela PELIN, Irina POPESCU, Dana Mihaela SUFLET  
*“Petru Poni” Institute of Macromolecular Chemistry*
- PII-19 Composite based on poly(2,2-dimethyl trimethylene carbonate) derivative and calcium orthophosphate for bone tissue repair**  
Irina Mihaela PELIN<sup>1</sup>, Marta SOCKA<sup>2</sup>, Adam MICHALSKI<sup>2</sup>, Malgorzata BASKO<sup>2</sup>, Fulga TANASA<sup>3</sup>  
<sup>1</sup>*“Petru Poni” Institute of Macromolecular Chemistry, Department of Natural Polymers,*

*Bioactive and Biocompatible Materials*

<sup>2</sup>*Center of Molecular and Macromolecular Studies, Polish Academy of Sciences, Department of Polymer Chemistry, Poland*

<sup>3</sup>*“Petru Poni” Institute of Macromolecular Chemistry, Department of Polyaddition and Photochemistry*

**PII-20 Toward high quality carbon nanostructures: carbon dimers enrichment in excimer laser produced plasma**

Andrei DIACONU<sup>1</sup>, Bogdan George RUSU<sup>2</sup>, Elena Laura URUSU<sup>1</sup>, Bogdan Florin CRACIUN<sup>1</sup>, Irina ROSCA<sup>1</sup>, Cristian URUSU<sup>2</sup>, Mariana PINTEALA<sup>1</sup>, Petru Edward NICA<sup>3</sup>

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<sup>3</sup>*“Gheorghe Asachi” Technical University of Iasi, Department of Physics*

**PII-21 Composite materials based on poly (vinyl alcohol) cross-linked with cellulosic derivatives**

Raluca Ioana BARON, Maria BERCEA, Gabriela BILIUTA, Madalina-Elena CULICA, Sergiu COSERI

*“Petru Poni” Institute of Macromolecular Chemistry*

**PII-22 Oxidation of polysaccharides using NHPI-based catalysts**

Madalina-Elena CULICA, Raluca Ioana BARON, Gabriela BILIUTA, Sergiu COSERI

*“Petru Poni” Institute of Macromolecular Chemistry*

**PII-23 The synthesis of two new Cadmium MOFs with carboxylate linkers**

Lucian G. BAHRAIN, Sergiu SHOVA, Alexandru ROTARU, Lilia CLIMA, Monica C. SARDARU, Narcisa L. MARANGOCI, Dana BEJAN

*“Petru Poni” Institute of Macromolecular Chemistry*

**PII-24 Photophysical properties of some isoquinoline derivatives**

Carmen GHERASIM<sup>1</sup>, Anton AIRINEI<sup>1</sup>, Radu TIGOIANU<sup>1</sup>, Anda CRACIUN<sup>1,2</sup>, Ramona DANAC<sup>2</sup>, Dragos-Lucian ISAC<sup>1</sup>

<sup>1</sup>*“Petru Poni” Institute of Macromolecular Chemistry*

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**PII-25 Effect of US regime on mesoporous titania properties**

Elvira MAHU<sup>1,2</sup>, Cristina COROMELCI<sup>1</sup>, Doina LUTIC<sup>1</sup>, Iulian ASAFTEI<sup>1</sup>, Maria IGNAT<sup>1</sup>

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry*

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