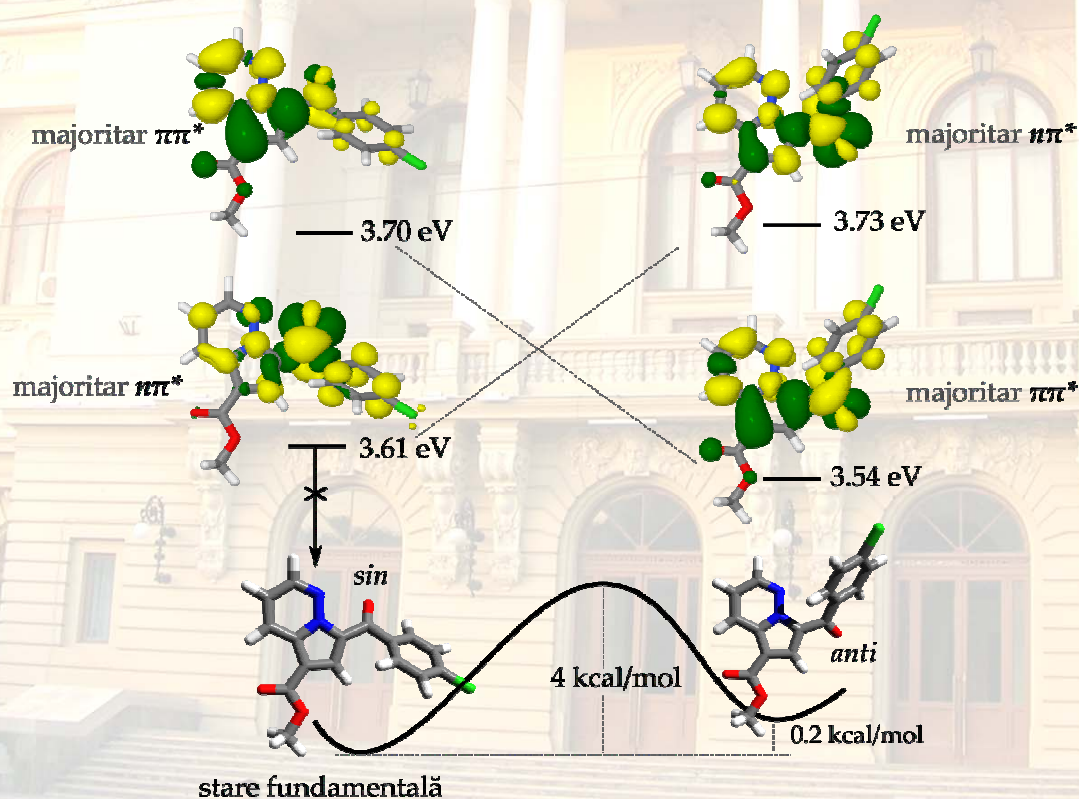




# “Alexandru Ioan Cuza” University Days

## Faculty of Chemistry Conference

### Program



Iași,  
October 31<sup>st</sup> – November 1<sup>st</sup>, 2014

## **“Alexandru Ioan Cuza” University Days**

### **Faculty of Chemistry Conference**

# **Program**

**Iasi,  
October 31<sup>st</sup> – November 1<sup>st</sup>, 2014**

**Registration of the participants starts on:**

**Thursday October 30<sup>th</sup>: 12<sup>00</sup>-14<sup>00</sup>**

**(Faculty Hall Concil)**

## ***Faculty of Chemistry Conference***

### ***Scientific Committee***

**President: Prof. PhD. Ionel Mangalagiu**

Acad. Prof. Marius Andruh

Acad. Prof. eng. Bogdan Simionescu

Acad. Prof. Cristian Silvestru

Prof. PhD. eng. Dan Cascaval

Prof. PhD. Gabi Drochioiu

Prof. PhD. Romeo-Iulian Olariu

Assoc. Prof. PhD. Doina Humelnicu

Assoc. Prof. PhD. Adrian Birzu

### ***Organizing committee***

**Prof. PhD. Aurel Pui**

Assoc. Prof. PhD. Ionel Humelnicu

Assoc. Prof. PhD. Habil. Cecilia Arsene

Assoc. Prof. PhD. Ramona Dănac

### ***Secretaryship***

Assoc. Prof. PhD. Nicoleta Cornei

ACS. PhD. Catalina-Ionica Ciobanu

Admin. Eng. Vasile Vatra

PhD. Stud. Constantin Virlan

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**Scientific Program**

**Day 1**

**Friday, October 31<sup>st</sup>**

**Location: Faculty of Chemistry, Lecture Hall P3**

**Registration of the participants**

08<sup>30</sup>-09<sup>00</sup>

**Display of posters (P1 - P40)**

**The Hall of the Echoing Footsteps**

09<sup>00</sup>-09<sup>10</sup>

**Opening ceremony**

Welcome address: Prof. Ph.D. **Ionel Mangalagiu**,  
Dean, Faculty of Chemistry

**Celebration of:**

**Prof. Ph.D. Neculai Bâlbă**

**Prof. Ph.D. Gelu Bourceanu**

09<sup>10</sup>-09<sup>30</sup>

**Prof. Ph.D. Gheorghe Mihăilă**

**Prof. Ph.D. Tinca Onofrei**

**Prof. Ph.D. Valeriu Şunel**

09<sup>30</sup>-09<sup>40</sup>

**Nobel Prize for Chemistry 2014**

**presented by Associate Prof. Ph.D. Mircea Apostu**

**Session 1**

Plenary lectures

Chairpersons: Prof. Ph.D. Gabi Drochioiu

Prof. Ph.D. Aurel Pui

CO1

09<sup>40</sup>-10<sup>00</sup>

**In memoriam Profesor Lucia Odochian -**

**Contribuții aduse la dezvoltarea tehnicii de analiză  
termică cuplată cu spectrometria de infraroșu în  
vederea studiului compușilor micro- și  
macromoleculari**

**C. Moldoveanu<sup>1</sup>**

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C1

10<sup>00</sup>-10<sup>40</sup>

**The separation of biosynthetic products by  
pertraction**

**Invited Professor D. Cascaval<sup>2</sup>, A.-I. Galaction<sup>3</sup>**

<sup>2</sup>"Ghe. Asachi" University of Iasi, Romania

<sup>3</sup>"Gr. T. Popa" University of Medicine and  
Pharmacy, Faculty of Medical Bioengineering, Iasi,  
Romania

SC1

10<sup>40</sup>-10<sup>50</sup>

**Controlled synthesis of water-soluble HPAM-NAS  
copolymer via RAFT polymerization and post-  
polymerization modification reactions**

**I. M. Simionca<sup>4,5</sup>, J. Moraes<sup>5</sup>, H. Ketari<sup>5</sup>, M.**

**Pinteala<sup>4</sup>, H. A. Klok<sup>5</sup>**

SC2

10<sup>50</sup>-11<sup>00</sup>

**Maleic acid copolymers for the preparation of  
stimuli-sensitive microparticles**

**I. Popescu<sup>4</sup>, Ghe. Fundueanu<sup>4</sup>**

11<sup>00</sup>-11<sup>30</sup>

**POSTER SESSION**

**COFFEE BREAK**

## Session 2

Plenary lectures

Chairpersons: Assoc. Prof. Ph.D. Ramona Danac  
Assoc. Prof. Ph.D. Adrian Birzu

- C2**  
11<sup>30</sup>-12<sup>10</sup> *Initial conditions and laws of nature*  
**G. Bourceanu**<sup>1</sup>, “Alexandru Ioan Cuza” University of Iasi
- CO2**  
12<sup>10</sup>-12<sup>30</sup> *Gas-phase absorption cross sections of selected aromatic hydrocarbons in the IR spectral ranges*  
**R. I. Olariu**<sup>1</sup>, **C. Arsene**<sup>1</sup>, **I. Barnes**<sup>6</sup>, **B. Klotz**<sup>6</sup>, **K. H. Becker**<sup>6</sup>
- CO3**  
12<sup>30</sup>-12<sup>50</sup> *Structure – rheological properties relationships in thermo-sensitive polymers*  
**M. Danu**<sup>4</sup>, **A. D. Rusu**<sup>2,7</sup>, **L. Rocha**<sup>7</sup>, **N. Hurduc**<sup>2</sup>, **B. C. Simionescu**<sup>2,4</sup>, **C. Ibanescu**<sup>2,4</sup>
- CO4**  
12<sup>50</sup>-13<sup>10</sup> *Influence of TiO<sub>2</sub> and Ag/Au nanoparticles on morphological, thermal, mechanical and catalytic properties of some hybrid composites*  
**A. L. Chibac**<sup>1,4</sup>, **V. Melinte**<sup>4</sup>, **T. Buruiana**<sup>4</sup>, **I. Mangalagiu**<sup>1</sup>, **E. C. Buruiana**<sup>4</sup>
- SC3**  
13<sup>10</sup>-13<sup>20</sup> *Cationic polysaccharides: Synthesis, characterization and application of quaternary ammonium salts of curdlan*  
**D. M. Suflet**<sup>4</sup>
- SC4**  
13<sup>20</sup>-13<sup>30</sup> *Lysosomal storage disease. Characterization and diagnostics of MPS II and MPS VI*  
**L. Ion**<sup>1,8</sup>, **C. Cozma**<sup>8</sup>, **C. Andries**<sup>1,8</sup>, **G. Drochioiu**<sup>1</sup>, **M. Przybylski**<sup>8</sup>, **B. A. Petre**<sup>1,8</sup>

13<sup>30</sup>-14<sup>30</sup>

**POSTER SESSION**

**LUNCH**

## Session 3

Plenary lectures

Chairpersons: Assoc. Prof. Ph.D. habil. Cecilia Arsene  
Ph.D. Oleg Palamarciuc

- C3**  
14<sup>30</sup>-15<sup>10</sup> *Macrocyclic coordination compounds of some metals based on 2,6- diformylthiophenol*  
**V. Lozan**<sup>9</sup>, Institute of Chemistry, Academy of Sciences of Moldova
- CO5**  
15<sup>10</sup>-15<sup>30</sup> *Distribution of mixing efficiency in a split-cylinder air-lift bioreactor for Y. lipolytica suspensions*  
**R. M. Matran**<sup>2</sup>, **A. C. Blaga**<sup>2</sup>, **M. Turnea**<sup>3</sup>, **A. I. Galaction**<sup>3</sup>, **D. Cascaval**<sup>2</sup>
- CO6**  
15<sup>30</sup>-15<sup>50</sup> *Heterometallic aminopolycarboxylates as molecular precursors for mixed-oxides*  
**I. Bulimestru**<sup>10</sup>, **N. Popa**<sup>10</sup>, **N. Cornei**<sup>1</sup>
- SC5**  
15<sup>50</sup>-16<sup>00</sup> *Photopolymerizable hybrid composites containing silver nanoparticles*  
**V. E. Podasca**<sup>4</sup>, **T. Buruiana**<sup>4</sup>, **E. C. Buruiana**<sup>4</sup>
- SC6**  
16<sup>00</sup>-16<sup>10</sup> *In vitro testing of polyvinyl alcohol/chitosan hydrogels as systems for controlled delivery of bisoprolol fumarate*  
**D. Pamfil**<sup>4</sup>, **E. Parparita**<sup>4</sup>, **C. N. Yilmaz**<sup>4</sup>, **O. Yilmaz**<sup>11</sup>, **C. Vasile**<sup>4</sup>

16<sup>10</sup>-16<sup>40</sup>

**POSTER SESSION**

**COFFEE BREAK**

#### **Session 4**

Plenary lectures

Chairpersons : Prof. Ph.D. Romeo-Iulian Olariu  
Ph.D. Vasile Lozan

- C4**  
16<sup>40</sup>-17<sup>20</sup> *Supramolecular chemistry: The effect of permofmodified cyclodextrin encapsulations in photophysical and morphological properties of conjugated polymers for organic electronics applications*  
A. Farcas<sup>4</sup>, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
- CO7**  
17<sup>20</sup>-17<sup>40</sup> *Activation of the thiosemicarbazide fragment by coordination with transition metals*  
O. Palamarciuc<sup>10,1</sup>, T. Palamarciuc<sup>10</sup>, E. Stratulat<sup>10,1</sup>, M. Secu<sup>10</sup>, A. Sirbu<sup>10</sup>, S. Sova<sup>10,4</sup>, A. Pui<sup>1</sup>
- CO8**  
17<sup>40</sup>-18<sup>00</sup> *New investigations on the gas phase reactions important for atmosphere*  
I. Bejan<sup>12,6</sup>, I. Barnes<sup>12</sup>, P. Seakins<sup>6</sup>
- 18<sup>30</sup> *Cocktail (Vanatorul Restaurant)*

#### **Scientific Program**

**Day 2**

**Saturday, November 1<sup>st</sup>**

**Location: Faculty of Chemistry, Lecture Hall P3**

- 08<sup>30</sup>-09<sup>00</sup> *Display of posters (P41 – P56)*  
*The Hall of the Echoing Footsteps*
- Session 5**  
Plenary lectures  
Chairpersons: Prof. Ph.D. Ionel Mangalagiu  
Assoc. Prof. Ph.D. Doina Humelnicu
- CO9**  
09<sup>00</sup>-09<sup>20</sup> *The identification of the materials used in a panel painting icon*  
R. Cristache<sup>13</sup>, I. Sandu<sup>13</sup>, V. Vasilache<sup>13</sup>
- CO10**  
09<sup>20</sup>-09<sup>40</sup> *Effect of temperature on aliphatic–aromatic polyimides*  
C.–D. Varganici<sup>4</sup>, D. Rosu<sup>4</sup>, C. Barbu–Mic<sup>4,2</sup>, L. Rosu<sup>4</sup>, D. Popovici<sup>4</sup>, C. Hulubei<sup>4</sup>, B. C. Simionescu<sup>4,2</sup>
- CO11**  
09<sup>40</sup>-10<sup>00</sup> *Polymeric adsorbents with covalently immobilized ionic liquid-like fragments for retention of metal ions*  
G. Moroi<sup>4</sup>, E. Avram<sup>4</sup>
- CO12**  
10<sup>00</sup>-10<sup>20</sup> *Metallopolymeric systems based on polyesterurethane and iron ions: Synthesis and characterization*  
G. Moroi<sup>4</sup>
- CO13**  
10<sup>20</sup>-10<sup>40</sup> *Magnetic Nanocomposites PLGA/Magnetite*  
N. Tudorachi<sup>4</sup>, A. P. Chiriac<sup>4</sup>, G. Lisa<sup>2</sup>, V. Balan<sup>3</sup>, L. Nita<sup>4</sup>

- SC7 *Molecular characterization of eosinophil peroxidase peptide by mass spectrometry*  
 10<sup>40</sup>-10<sup>50</sup> C. Andries<sup>1,8</sup>, G. Drochioiu<sup>1</sup>, M. Przybylski<sup>8</sup>, B. A. Petre<sup>1,8</sup>
- SC8 *The in vitro testing of xanthan/lignin hydrogels as carriers for controlled delivery of bisoprolol fumarate*  
 10<sup>50</sup>-11<sup>00</sup> I. E. Raschip<sup>4</sup>, D. Pamfil<sup>4</sup>, C. Vasile<sup>4</sup>
- SC9 *Synthesis and characterization of poly(arylene ethynylene)s containing indol[3,2-b]carbazole moieties*  
 11<sup>00</sup>-11<sup>10</sup> O. I. Negru<sup>4</sup>, A. M. Catargiu<sup>4</sup>, M. Grigoras<sup>4</sup>
- SC10 *Phenothiazine derivatives. The influence of the substituent upon optical and electrochemical properties*  
 11<sup>10</sup>-11<sup>20</sup> A. Bejan<sup>4,1</sup>, D. Belei<sup>1</sup>, L. Marin<sup>4</sup>
- SC11 *Poly(vinyl alcohol) copolymers biodegradation with Trichotecium roseum fungi*  
 11<sup>20</sup>-11<sup>30</sup> R. Lipsa<sup>4</sup>, N. Tudorachi<sup>4</sup>, A. Grigoras<sup>4</sup>, C. Vasile<sup>4</sup>, P. Gradinariu<sup>39</sup>, A. P. Chiriac<sup>4</sup>, F. Mustata<sup>4</sup>

**POSTER SESSION**

**COFFEE BREAK**

**AWARDS FOR THE BEST PARTICIPANTS**

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

11<sup>50</sup>

12<sup>00</sup> **Workshop- Location: Lecture Hall P3**

*"Progres reports to grant POSDRU/159/1.5/S/137750"*

Prof. Ph.D. Ghe. Aniculaiesei, manager proiect  
 Prof. Ph.D. Ionel Mangalagiu, ETL domeniul chmie

**POSTERS**

- P1 *Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry*  
G. Mardare (Balusescu)<sup>1</sup>, L. V. Soroaga<sup>1</sup>, L. S. Marin<sup>1</sup>, M. C. Agafitei<sup>1</sup>, C. Arsene<sup>1</sup>, R. I. Olariu<sup>1</sup>
- P2 *Water soluble organic carbon in aerosols from Iasi, north-eastern Romania*  
M. Petrea-Ioneasa<sup>1</sup>, R. I. Olariu<sup>1</sup>, C. Arsene<sup>1</sup>
- P3 *Multicriteria analysis applied to bioplastics and bioenergy production from waste*  
E. D. Comanita<sup>2</sup>, C. Ghinea<sup>2</sup>, C. Smaranda<sup>2</sup>, R. M. Hlihor<sup>2</sup>, I.M. Simion<sup>2</sup>, M. Gavrilescu<sup>2,14</sup>
- P4 *Analysis of environmental impacts of municipal solid waste*  
 C. Ghinea<sup>2</sup>, D. E. Comanita<sup>2</sup>, M. Petraru<sup>2</sup>, M. Gavrilescu<sup>2,14</sup>
- P5 *Induced Processes in Cellulose Derivative Systems*  
M.-D. Onofrei<sup>4</sup>, A. M. Dobos<sup>4</sup>, S. Ioan<sup>4</sup>
- P6 *Polyimide/iron oxide composites. Synthesis and characterization*  
S.-L. Nica<sup>4</sup>, V. Nica<sup>15</sup>, V. C. Grigoras<sup>4</sup>, C.-D. Varganici<sup>4</sup>, D. Popovici<sup>4</sup>, C. Hulubei<sup>4</sup>, S. Ioan<sup>4</sup>
- P7 *Thin Gold Layers Sputtered on Quaternized Polysulfone Substrate Modified by Low Pressure Plasma Treatment*  
R. M. Albu<sup>4</sup>, E. Avram<sup>4</sup>, E. G. Ioanid<sup>4</sup>, I. Stoica<sup>4</sup>, S. Ioan<sup>4</sup>
- P8 *Phosphorus-containing polysulfones for high-performance applications in advanced technologies*  
 L. I. Buruiana<sup>4</sup>, S. Ioan<sup>4</sup>
- P9 *Packaging influence on coffee quality through measurements of relevant physico-chemical parameters*  
A. Buculei<sup>16</sup>, L. C. Apostol<sup>16</sup>
- P10 *Evaluation of Optical and Dielectric Properties of Polystyrene/BaTiO<sub>3</sub> Nanocomposites*  
A. I. Barzic<sup>4</sup>, R. F. Barzic<sup>17</sup>
- P11 *Evaluation of untreated biomass of Phaseolus vulgaris L. as potential biosorbent for organic dyes*  
C. Smaranda<sup>2</sup>, L. C. Apostol<sup>2,16</sup>, E. D. Comanita<sup>2</sup>, M. Gavrilescu<sup>2,14</sup>
- P12 *Green composites comprising starch and natural fillers: structure and properties investigation*  
C.-A. Teaca<sup>4</sup>, I. Spiridon<sup>4</sup>, N. Tudorachi<sup>4</sup>, R. Bodirlau<sup>4</sup>

- P13** *Wood treatment with vegetable oils and its protective effect under environmental factors action*  
R. Bodirlau<sup>4</sup>, C.-A. Teaca<sup>4</sup>, E. Marlica<sup>4</sup>, L. Rosu<sup>4</sup>, D. Rosu<sup>4</sup>
- P14** *Polymers with biopassive and bioactive properties*  
M. Zanoaga<sup>4</sup>, F. Tanasa<sup>4</sup>
- P15** *Composite scaffolds with interconnected pores*  
F. Tanasa<sup>4</sup>, M. Zanoaga<sup>4</sup>
- P16** *Transfection capacity of PEI-based nanovehicles depending on their molecular architecture*  
C. M. Uritu<sup>4</sup>, R. Ardeleanu<sup>4</sup>, L. Ursu<sup>4</sup>, M. Calin<sup>18</sup>, V. Simion<sup>18</sup>, M. Pinteala<sup>4</sup>
- P17** *Mesoporous silica (SBA-15) as adsorbent for removal of dyes from wastewaters*  
D. Suteu<sup>2</sup>, B. Dragoi<sup>2</sup>, A. Ungureanu<sup>2</sup>
- P18** *New mechanistic insights on the cycloaddition of the benzimidazolium ylides with alkynes*  
C. Moldoveanu<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, D. Mantu<sup>1</sup>, V. Bejan<sup>1</sup>, D. Maftai<sup>1</sup>, I. Mangalagiu<sup>1</sup>
- P19** *Microwave assisted synthesis of benzofuran derivatives*  
A. M. Zbancioc<sup>1,19</sup>, G. Tatarina<sup>19</sup>, C. Moldoveanu<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, I. Mangalagiu<sup>1</sup>
- P20** *New complexes of 5-(3-Pyridyl)-4H-1,2,4-triazole-3-thiol with Co(II), Ni(II), Mn(II), Cu(II) ions: Synthesis, structure and magnetic properties*  
P. Gospei (Horlescu)<sup>2</sup>, D. Sutiman<sup>2</sup>, C. Mita<sup>1</sup>, M. Fortuna<sup>4</sup>, C. Stan<sup>5</sup>
- P21** *Influence of Pb substitution with Sr on the magnetic/crystalline structure and transport properties of La<sub>0.5</sub>Pr<sub>0.2</sub>Pb<sub>0.3</sub>MnO<sub>3</sub> manganites*  
N. Cornei<sup>1</sup>, M.-L. Craus<sup>20,21</sup>, C. Mita<sup>1</sup>, A. Islamov<sup>21</sup>, E. M. Anitas<sup>21,22</sup>, V. Dobrea<sup>20</sup>
- P22** *The study of oxygen mass transfer in tetraphasic systems: gas-liquid-liquid-solid in stirred bioreactors*  
C. Ciobanu<sup>2</sup>, A. C. Blaga<sup>2</sup>, A. Tucaliuc<sup>2</sup>, O. Farcasi<sup>2</sup>, D. Cascaval<sup>2</sup>, A.I. Galaction<sup>3</sup>
- P23** *Study on synergic reactive extraction of vitamin B9*  
A. Bompa<sup>2</sup>, L. Kloetzer<sup>2</sup>, A. Tucaliuc<sup>2</sup>, D. Cascaval<sup>2</sup>, A. I. Galaction<sup>3</sup>

- P24** *Selective separation of acetophenone and methylbenzylamine from their mixture by extraction*  
L. Kloetzer<sup>2</sup>, M. Postaru<sup>3</sup>, A. C. Blaga<sup>2</sup>, B. Mihasan<sup>2</sup>, A. I. Galaction<sup>3</sup>, D. Cascaval<sup>2</sup>
- P25** *Synthesis and structure of new 1,10-phenantroline derivatives*  
M. C. Al-Matarneh<sup>1</sup>, A. Chirciu<sup>1</sup>, M. Apostu<sup>1</sup>, R. Danac<sup>1</sup>
- P26** *High yield photocatalytic degradation of pesticide contaminants by ferrite nanoparticles*  
M. Zaharia<sup>1</sup>, A. Cosma<sup>1</sup>, A. Pui<sup>1</sup>, R. Gradinaru<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, M. Murariu<sup>4</sup>, G. Drochioiu<sup>1</sup>
- P27** *Metal-Organic Frameworks Based on pyridine-2,6-dicarboxylic Acid as Ligand*  
D. Humelnicu<sup>1</sup>, M. O. Apostu<sup>1</sup>, G. Lisa<sup>2</sup>, I. Humelnicu<sup>1</sup>
- P28** *Synthesis and structure particularities of two new coordination polymers of Zinc(II) and Cobalt(II) with 1,2,3-benzenetricarboxylic acid and 1,4-bis((1H-imidazol-1-yl)methyl)benzene*  
I. Voda<sup>9</sup>, V. Druta<sup>9</sup>, C. Indricean<sup>9</sup>, V. Lozan<sup>9</sup>, S. Shova<sup>9</sup>, C. Turta<sup>9</sup>
- P29** *Preparation by citrate combustion and characterization of the double perovskite oxides Ca<sub>2</sub>BMoO<sub>6</sub> (B = Cr, La, Sm)*  
I. A. Gorodea<sup>1</sup>
- P30** *Synthesis and structure of new compounds with 1,10-phenantroline and 2,2'-bipyridine skeletons*  
A. Olaru<sup>1</sup>, C. Filip<sup>1</sup>, M. Apostu<sup>1</sup>, R. Danac<sup>1</sup>
- P31** *DNA interactions with tannic acid and it's titanium complex*  
R. Tarus<sup>1</sup>, P. Atanasova<sup>23</sup>, A. Surleva<sup>23</sup>, R. Gradinaru<sup>1</sup>
- P32** *Metal heterocyclic complexes in polysiloxane matrix*  
A.-M.-C. Dumitriu<sup>4</sup>, G. Stiubianu<sup>4</sup>, M. Cazacu<sup>4</sup>
- P33** *New compound of Ce(III) with Keggin monolacunary polyoxometalate*  
D. Humelnicu<sup>1</sup>, M. Ferbinteanu<sup>24</sup>, P. Badica<sup>25</sup>, I. Humelnicu<sup>1</sup>
- P34** *Cobalt influence on crystalline structure and transport properties of La<sub>0.9</sub>Sr<sub>0.1</sub>Cr<sub>1-x</sub>Co<sub>x</sub>O<sub>3</sub>*  
C. Mita<sup>1</sup>, M.-L. Craus<sup>20,21</sup>, N. Cornei<sup>1</sup>, M. Ignat<sup>1</sup>, G. Nemtoi<sup>1</sup> and V. Dobrea<sup>20</sup>

- P35** **Atmospheric deposition of copper and zinc in Maramures county**  
C. Butean<sup>26</sup>, Z. M. Berinde<sup>26</sup>, C. Mihali<sup>26</sup>, A. Michnea<sup>27</sup>, A. Gavra<sup>27</sup>, M. Simionescu<sup>27</sup>
- P36** **Synthesis and characterization of new mutant peptides used for understanding the conformational changes related to Alzheimer disease**  
C. I. Ciobanu<sup>1</sup>, M. Murariu<sup>4</sup>, L. Habasescu<sup>1</sup>, M. Mihai<sup>4</sup>, G. Drochioiu<sup>1,4</sup>
- P37** **Optimal tosylation parameters for  $\beta$ -cyclodextrin functionalization**  
S. Bucur<sup>1</sup>, C. Peptu<sup>4</sup>, M.-L. Birsa<sup>1</sup>, N.-C. Lungu<sup>1</sup>
- P38** **ATR-FTIR, a non-invasive tool to investigate keratin from human fingernails**  
A. Coroaba<sup>4</sup>, A. Chiriac<sup>28</sup>, C. Solovan<sup>29</sup>, B. C. Simionescu<sup>4</sup>, M. Pinteala<sup>4</sup>
- P39** **New Tetrathiafulvalene Derivatives Substituted with [2.2]Paracyclophanes**  
L. G. Sarbu<sup>1</sup>, H. Hopf<sup>30</sup>, M. L. Birsa<sup>1,30</sup>
- P40** **X-Ray evidence of cyclic and acyclic phthalazinic derivatives with vinyl chain**  
V. Antoci<sup>1</sup>, D. Mantu<sup>1</sup>, M.-O. Apostu<sup>1</sup>, C. Moldoveanu<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, I. I. Mangalagiu<sup>1</sup>
- P41** **Synthesis and characterization of new anthracene-based imidazolium salts**  
D. Mantu<sup>1</sup>, V. Antoci<sup>1</sup>, C. Moldoveanu<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, I. I. Mangalagiu<sup>1</sup>
- P42** **The antifungal activity and cytotoxicity of MXP-4509, a new compound with pharmaceutical potential**  
B. Minea<sup>4</sup>, D. Peptanariu<sup>4</sup>, M. Mares<sup>31</sup>, V. Nastasa<sup>31</sup>, R. F. Moraru<sup>31</sup>, M. Hancianu<sup>32</sup>, N. Marangoci<sup>4</sup>, M. Pinteala<sup>4</sup>
- P43** **Optimization of catalytic degradation of organic dyes in the presence of nanoferrites**  
C. Virlan<sup>1</sup>, D. Gherca<sup>1</sup>, A. Pui<sup>1</sup>
- P44** **Synthesis and characterization of  $Mn_xCo_{1-x}Fe_2O_4$  by co-precipitation route and absorption of AuBSA NCs on the surface of magnetic NPs**  
R.-G. Ciocarlan<sup>1</sup>, D. Gherca<sup>1</sup>, O. F. Caltun<sup>15</sup>, R. Hempelmann<sup>33</sup>, A. Pui<sup>1</sup>

- P45** **Stiffening porous inorganic materials in particulate form for polymeric composites**  
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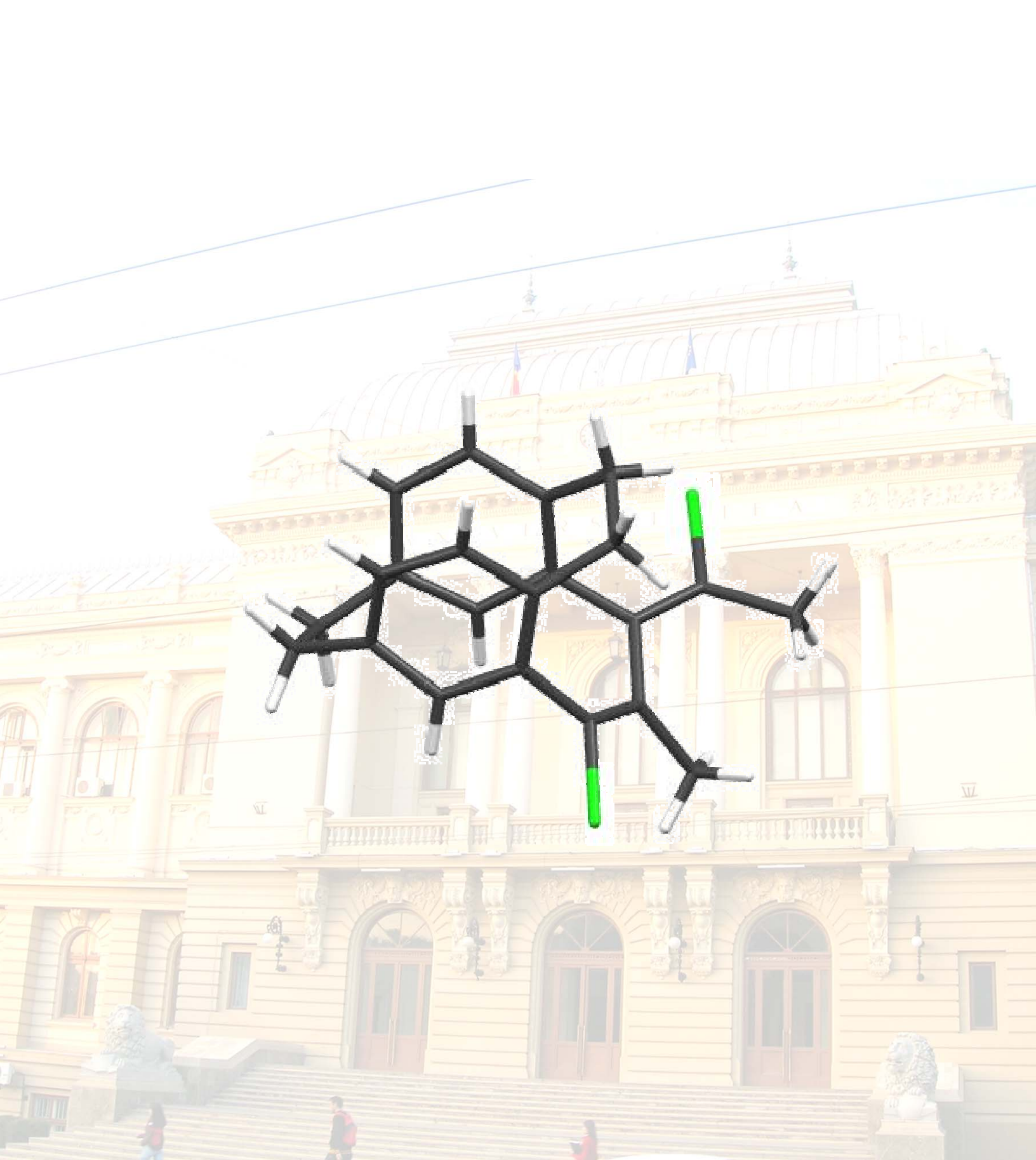


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