



OLTCHIM  
CENTRUL DE CERCETARE



ACADEMIA ROMÂNĂ  
SECȚIA DE ȘTIINȚE CHIMICE



SOCIETATEA DE CHIMIE  
DIN ROMÂNIA

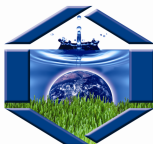
# PROGRAMME

## XXXIV-th ROMANIAN CHEMISTRY CONFERENCE

*Dedicated to one hundred fifty years anniversary of the  
Romanian Academy*

*Dedicated to the 50<sup>th</sup> anniversary of OLTCHIM S. A., Râmnicu  
Vâlcea, Romania*

October 4-7, 2016  
Călimănești-Căciulata, Vâlcea  
ROMANIA



OLTCHIM  
CENTRUL DE CERCETARE



ACADEMIA ROMÂNĂ  
SECȚIA DE ȘTIINȚE CHIMICE



SOCIETATEA DE CHIMIE  
DIN ROMÂNIA

# PROGRAM

## A XXXIV-A CONFERINȚĂ NAȚIONALĂ DE CHIMIE

*Conferința este dedicată aniversării a 150 de ani de la înființarea  
Academiei Române și aniversării a 50 de ani de activitate a  
OLTCHIM S. A., Râmnicu Vâlcea, România*

**4-7 Octombrie 2016  
Călimănești-Căciulata, Vâlcea  
ROMANIA**

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**COMITETUL DE ORGANIZARE / ORGANIZING COMMITTEE**

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Acad. Bogdan C. Simionescu  
Acad. Ionel Haiduc  
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Mihaela Barbu, Adriana Tobă, Daniela Marinescu (secretariat/secretariat)  
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Elena Guță, Ioana Tuță, Constantin Teodorescu, Elena Tudosescu, Oana Văduva

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**Cuprins / Table of Contents**

▪ PROGRAMUL CONFERINȚEI / CONFERENCE SCHEDULE .....	6
▪ CONFERINȚE PLENARE / PLENARY LECTURES .....	9
▪ ADUNAREA SOCIETĂȚII DE CHIMIE DIN ROMÂNIA / ROMANIAN CHEMICAL SOCIETY MEETING .....	12
• CONFERINȚE ÎN SECȚIUNI / LECTURES IN PARALLEL SECTIONS .....	13
I. Chimie organică, bioorganică și alimentară / Organic, bioorganic and food chemistry .....	14
II. Chimie anorganică, bioanorganică și analitică / Inorganic, bioinorganic and analytical chemistry .....	19
III. Chimie macromoleculară și supramoleculară / Macromolecular and supramolecular chemistry .....	22
IV. Materiale noi și nanomateriale & Inginerie chimică / Advanced materials and Nanomaterials & Chemical engineering .....	26
V. Protecția mediului și monitorizare / Chemistry of the environment.....	29
POSTERE / POSTERS .....	32
I. Chimie organică, bioorganică și alimentară / Organic, bioorganic and food chemistry .....	32
II. Chimie anorganică, bioanorganică și analitică / Inorganic, bioinorganic and analytical chemistry .....	40
III. Chimie macromoleculară și supramoleculară / Molecular and supramolecular chemistry .....	46
IV. Materiale noi și nanomateriale și Inginerie chimică / Advanced materials and nanomaterials & Chemical engineering .....	49
V. Protecția mediului și monitorizare / Chemistry of the environment.....	55
ABREVIERI / ABBREVIATIONS .....	59

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

**PROGRAMUL CONFERINȚEI / CONFERENCE SCHEDULE**

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**MARȚI / TUESDAY, 04 octombrie / october 2016**

- 12<sup>00</sup> - 22<sup>00</sup> Înregistrarea participanților / Registration

**MIERCURI / WEDNESDAY, 05 octombrie / october 2016:**

- 09<sup>30</sup> - 10<sup>15</sup> Deschiderea lucrărilor / Opening ceremony

- 10<sup>15</sup> - 11<sup>00</sup> Conferință plenară / Plenary lecture

- 11<sup>00</sup> - 11<sup>45</sup> Conferință plenară / Plenary lecture

- 11<sup>45</sup> - 12<sup>15</sup> Pauză de cafea / Coffee break

- 12<sup>15</sup> - 13<sup>00</sup> Conferință plenară / Plenary lecture

- 13<sup>00</sup> - 13<sup>45</sup> Conferință plenară / Plenary lecture

- 13<sup>45</sup> - 15<sup>30</sup> Pauză prânz / Lunch

- 15<sup>30</sup> - 17<sup>30</sup> Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections

- 17<sup>30</sup> - 19<sup>00</sup> Discuții postere / Posters session

- 19<sup>30</sup> - 23<sup>00</sup> Cocteil / Cocktail

**JOI / THURSDAY, 06 octombrie / october 2016:**

- 09<sup>30</sup> - 10<sup>15</sup> Conferință plenară / Plenary lecture

- 10<sup>15</sup> - 11<sup>00</sup> Conferință plenară / Plenary lecture

- 11<sup>00</sup> - 11<sup>30</sup> Pauză de cafea / Coffee break

- 11<sup>30</sup> - 12<sup>15</sup> Conferință plenară / Plenary lecture

- 12<sup>15</sup> - 13<sup>00</sup> Conferință plenară / Plenary lecture

- 13<sup>00</sup> - 14<sup>30</sup> Pauză prânz / Lunch

- 14<sup>30</sup> - 16<sup>30</sup> Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections

- 16<sup>30</sup> - 17<sup>00</sup> Pauză de cafea / Coffee break

- 17<sup>00</sup> - 18<sup>00</sup> Adunarea Societății de Chimie din România / Acordarea medaliei

"Costin D. NENITESCU" profesorului Ion Neda de la Universitatea Tehnică Carola

Wilhelmina din Braunschweig, Germania

- 18<sup>00</sup> - 19<sup>30</sup> Discuții postere / Posters session/

Competiția tinerilor cercetători / The competition of young researchers

**VINERI / FRIDAY, 07 octombrie / october 2016:**

- 09<sup>30</sup> - 10<sup>15</sup> Conferință plenară / Plenary lecture

- 10<sup>15</sup> - 11<sup>00</sup> Conferință plenară / Plenary lecture

- 11<sup>00</sup> - 11<sup>30</sup> Pauză de cafea / Coffee break

- 11<sup>30</sup> - 13<sup>00</sup> Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections - Acordarea premiului „C.D. Nenițescu”- prezentarea lucrării premiate/„C.D. Nenițescu” award – young winner workpaper presentation

- 13<sup>15</sup> - 13<sup>30</sup> Închiderea lucrărilor conferinței / Closing remarks

- 13<sup>30</sup> Prânz / Lunch

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**Timpul afectat prezentării lucrărilor / Presentation time**

(discuții incluse / discussion included)

- |  |            |
|--|------------|
| • conferințe plenare:                      | 40 minute  |
| • plenary lectures:                        | 40 minutes |
| • conferințe în secțiuni:                  | 20 minute  |
| • lectures in parallel sections:           | 20 minutes |
| • comunicări orale:                        | 10 minute  |
| • oral communications in parallel sections | 10 minutes |

**Afișarea posterelor / Posters program**

- Numărul din program al posterului corespunde cu cel înscris pe panou.
- Poster number from the program will be found on poster panel.

• Posterele programate pentru miercuri 05 octombrie se vor afișa marți seara după orele 20<sup>00</sup> sau miercuri dimineața între 8<sup>30</sup>-9<sup>30</sup> și se vor ridica seara după orele 20<sup>00</sup>.

• Posters programmed on Wednesday, October 5 will be placed on the poster board Tuesday evening or Wednesday from 8<sup>30</sup> to 9<sup>30</sup> a.m. and will be removed Wednesday after 8<sup>00</sup> p.m.

• Posterele programate pentru joi 06 octombrie se vor afișa miercuri seara după orele 20<sup>00</sup> sau joi dimineața între 8<sup>30</sup>-9<sup>30</sup> și se vor ridica seara după orele 20<sup>00</sup>.

• Posters programmed on Thursday, October 6 will be placed on the poster board Wednesday evening after 8<sup>00</sup> p.m. or Thursday from 8<sup>30</sup> to 9<sup>30</sup> a.m. and will be removed Thursday evening, after 8<sup>00</sup> p.m.

*Discuțiile asupra posterelor vor avea loc conform programului, în prezența autorilor.*

Posters session: presence of authors is required.

**CONFERINȚE PLENARE / PLENARY LECTURES**



**CONFERINȚE PLENARE / PLENARY LECTURES**

**Hotel Cozia**

**MIERCURI / WEDNESDAY, 05 octombrie / october 2016**

**09<sup>30</sup>- 10<sup>15</sup>- Deschiderea lucrărilor conferinței / Opening ceremony**

**10<sup>15</sup> – 11<sup>45</sup> Președinte / Chairman:  
prof. Marius ANDRUH**

**C.P. - 1. CULTURĂ ȘI ERUDIȚIE ÎN EPOCA INTERNETULUI**

**Alexandru T. Balaban**

*Academia Română, București, România*

**C.P. - 2. ENGINEERING MAGNETIC MOLECULAR COMPOUNDS : A  
METALLOSUPRAMOLECULAR APPROACH**

**Y. Journaux<sup>1</sup>, M. Poncet<sup>1</sup>, X. Ottenwaelder<sup>1</sup>, MC. Dul<sup>1</sup>, R. Lescouëzec<sup>1</sup>, L. Lisnard<sup>1</sup>, L.M. Chamoreau<sup>1</sup>, G. Gontard<sup>1</sup>, Y. Li<sup>1</sup>, J. Ferrando<sup>2</sup>, E. Pardo<sup>2</sup>, R. Ruiz-García<sup>2</sup>, F. Lloret<sup>2</sup>, M. Julve<sup>2</sup>, J. Cano<sup>2</sup>, C. Lopes Pereira<sup>3</sup>**

*<sup>1</sup>Institut Parisien de Chimie Moléculaire, UPMC, Paris, France*

*<sup>2</sup>Instituto de Ciencia Molecular (ICMol), Universitat de València, Valencia, Spain*

*<sup>3</sup>Departamento de Química, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*

**11<sup>45</sup> – 12<sup>15</sup> Pauză / Coffee break**

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**12<sup>15</sup> – 13<sup>45</sup> Președinte / Chairman:  
Prof. Sorin ROȘCA**

**C.P. - 3. CONSTITUTIONAL DYNAMIC MATERIALS**

**Mihail Bărboiu**

*Adaptive Supramolecular Nanosystems Group, Institut Européen des Membranes, Montpellier, France  
INTELCENTRU, "Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi,  
Romania*

**C.P. - 4. HETEROTRISPIN COMPLEXES**

**Marius Andruh**

*Academia Română, București, România*

**JOI / THURSDAY, 6 octombrie / october 2016**

**09<sup>30</sup> - 11<sup>00</sup> Președinte / Chairman:  
Prof. Gheorghița JINESCU**

**C.P. - 5. FROM MACROMOLECULES TO NANOSTRUCTURES AND BIOSYSTEMS**

**Valeria Harabagiu**

*"Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania*

**C.P. - 6. SELF-ASSEMBLED SUPRAMOLECULAR ARCHITECTURES, INNOVATIVE  
HOST MOLECULES AND POROUS POLYMERS**

**Ion Grosu**

*"Babeș-Bolyai" University, Supramolecular Organic and Organometallic Chemistry Center,  
Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania*

**11<sup>00</sup> - 11<sup>30</sup> Pauză / Coffee break**

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**11<sup>30</sup> – 13<sup>00</sup> Președinte / Chairman:  
Prof. Corneliu V. RADU**

**C.P. - 7. NOI REACȚII DE CUPLARE CARBON - CARBON MEDIATE DE COMPLEXȘI  
METAL - AROMATICI**

**Sorin I. Rosca**

*Departamentul de Chimie Organică "C.D. Nenițescu"*

*Universitatea "Politehnica" București*

**C.P. - 8. NITROGEN HETEROCYCLES DERIVATIVES: NEW ACHIEVEMENTS**

**Ionel I. Măngalașiu**

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

**VINERI / FRIDAY, 7 octombrie / october 2016**

**09<sup>30</sup> – 10<sup>15</sup> Președinte / Chairman:  
Dr. Călin DELEANU**

**C.P. - 9. FITOTERAPIE-TRECUT-PREZENT ȘI VIITOR**

**Ștefan Manea**

*S.C. HOFIGAL S.A., București*

**C.P. - 10. SYNTHESIS OF AZAHETEROCYCLIC COMPOUNDS OR THEIR PRECURSORS  
AND <sup>1</sup>H-<sup>15</sup>N 2D NMR SPECTROSCOPY AS A USEFUL TOOL FOR STRUCTURE  
DETERMINATION**

**Valentin Badea, Vasile Nicolae Bercean, Alina Mihaela Muscoi Mindruleanu, Ana Maria Todea**

*University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering,  
Timisoara, Romania*

**Hotel Cozia**

**JOI / THURSDAY, 6 octombrie / october 2016**

**17<sup>00</sup> – 18<sup>00</sup>**

**ADUNAREA SOCIETĂȚII DE CHIMIE DIN ROMÂNIA /  
ROMANIAN CHEMICAL SOCIETY MEETING**

**Acordarea medaliei "Costin D. NENIȚESCU " profesorului Ion Neda  
de la Universitatea Tehnică Carola Wilhelmina din Braunschweig,  
Germania**

**Award medal " Costin D. NENITESCU " Professor Ion Neda Carola  
Wilhelmina Technical University of Braunschweig, Germany**

**18<sup>00</sup> – 19<sup>00</sup>**

**SESIUNEA DE COMUNICĂRI DEDICATĂ  
COMPETIȚIEI TINERILOR CERCETĂTORI**

- **CONFERINȚE ÎN SECȚIUNI / LECTURES IN  
PARALLEL SECTIONS**
- **COMUNICĂRI ORALE ÎN SECȚIUNI / ORAL  
COMMUNICATIONS IN PARALLEL SECTIONS**

**SECȚIUNEA I / SECTION I**  
**Chimie organică, bioorganică și alimentară / Organic,  
bioorganic and food chemistry**

**Hotel Cozia**

**MIERCURI / WEDNESDAY, 5 octombrie / october 2016**

**15<sup>30</sup> – 17<sup>30</sup>**

**Președinte / Chairman:**  
**Prof. Ionel MANGALAGIU**

**CONFERINȚE / LECTURES**

**C.S.I. - 1. CONTROL OF STRUCTURE AND FUNCTIONALITY INCORPORATING REACTIVE SPECIES IN A CALIXARENE CAVITY: DEVELOPMENT OF NEW SYNTHETIC METHODS FOR INNOVATIVE DRUG-DESIGN.**

**Ion Neda<sup>1,2,3</sup>, Catalin V. Maftei<sup>1,3</sup>, Elena Fodor<sup>1,3</sup>, M. Heiko Franz<sup>2,3</sup>**

*<sup>1.</sup>Institut für Anorganische und Analytische Chemie, Technische Universität Carola Wilhelmina, Hagenring 30, Germany*

*<sup>2.</sup>InnoChemTech GmbH, Hagenring 30, Germany*

*<sup>3.</sup>Institutul Național de Cercetare Dezvoltare pentru Electrochimie și Materie Condensată Timișoara, România*

**C.S.I. - 2. EXPLOITING NATURAL COMPOUNDS FOR NEW PRODUCTS AND MATERIALS**

**Raluca Stan**

*University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Organic Chemistry "C.D. Nenitescu" Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.I. - 3. IN MEMORIAM PROFESOR DR. MIRCEA IOVU**

**Teodor Octavian Nicolescu**

*U.M.F. Carol Davila București, Facultatea de Farmacie, Disciplina Chimie Organică, București, România*

**C.S.I. - 4. DESIGN, SYNTHESIS, MOLECULAR DOCKING, AND ANTIBACTERIAL EVALUATION OF SOME NOVEL QUINOLONES AS POTENT ANTIBACTERIAL AGENT**  
**Lucia Pintilie<sup>1</sup>, Amalia Ștefaniu<sup>1</sup>, Alina Ioana Nicu<sup>1</sup>, Miron T. Caproiu<sup>2</sup>, Maria Maganu<sup>2</sup>**

*<sup>1</sup>National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, Romania*

*<sup>2</sup>Organic Chemistry Center "C.D.Nenitescu", Bucharest, Romania*

**C.S.I. - 5. STUDIU TEORETIC AL TRANSFERULUI DE SARCINĂ FOTOINDUS ÎN SISTEME AZOBENZEN-MALEIMIDĂ CU IMPLICAȚII ASUPRA IZOMERIZĂRII E-Z**

**Dragoș-Lucian Isac<sup>1</sup>, Dan Maftei<sup>2</sup>, Anton Airinei<sup>1</sup>, Ionel Humelnicu<sup>2</sup>, Mihaela Homocianu<sup>1</sup>, Mariana Pinteală<sup>1</sup>**

*<sup>1</sup>Institutul de Chimie Macromoleculară „Petru Poni” Iași, România*

*<sup>2</sup>Facultatea de Chimie, Universitatea „Alexandru Ioan Cuza”, Iași, România*

**C.S.I. - 6. CHARGE-ASSISTED HYDROGEN BONDING SELF-ASSEMBLY OF BIS-AMIDINE COMPLEXES**

**Lidia Pop, Niculina D. Hădade, Ion Grosu**

*Babes-Bolyai University, Department of Organic Chemistry, Centre of Supramolecular, Organic and Organometallic Chemistry, Cluj-Napoca, Romania*

**C.S.I. - 7. FATTY ACID PROFILE FOR VARIOUS TYPE OF VEGETABLE CHEESES**

**Mihaela Tociu, Maria Cristina Todașcă, Michaela-Dina Stănescu**

*University „Politehnica” of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Organic Chemistry „Costin D. Nenitescu”, Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**JOI / THURSDAY, 6 octombrie / october 2016**

**14<sup>30</sup>- 16<sup>30</sup>**

**Președinte / Chairman:  
Prof. Raluca STAN**

**CONFERINȚE / LECTURES**

**C.S.I. - 8. CINCHONA ALKALOID BASED KEY STRUCTURES: QUINCORINE AND QUINCORIDINE AND DERIVATIVES THEREOF**

**M. Heiko Franz<sup>2,3</sup>, Catalin V. Maftעי<sup>1,3</sup>, Elena Fodor<sup>1,3</sup>, Ion Neda<sup>1,2,3</sup>**

*<sup>1</sup>Institut für Anorganische und Analytische Chemie, Technische Universität Carola Wilhelmina, Germany*

*<sup>2</sup>InnoChemTech GmbH, Germany*

*<sup>3</sup>Institutul Național de Cercetare Dezvoltare pentru Electrochimie și Materie Condensată, Timișoara, România*

**C.S.I. - 9. AMELIORAREA AFECTIUNILOR ORL CU AJUTORUL GEMOTERAPIEI SI FITOTERAPIEI**

**Anca Daniela Raiciu; Iulia Hobeanu Burghiu; Stefan Manea**

*S.C. HOFIGAL S.A., București, România*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.I. - 10. SYNTHESIS OF NEW COMPOUNDS IN SEARCH FOR ANTITUMOR SMALL MOLECULE SUBSTANCES**

**Constantin I. Tănase<sup>1</sup>, Ana-Maria Hanganu<sup>2</sup>, Sergiu Shova<sup>3</sup>, Cristian V. Munteanu<sup>4</sup>, Maria Maganu<sup>2</sup>, Lucia Pintilie<sup>1</sup>, Cătălina Neguț<sup>1</sup>, Mihaela Deaconu<sup>1</sup>, Elena Mihai<sup>1</sup>**

*<sup>1</sup>National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, ROMANIA*

*<sup>2</sup>Organic Chemistry Center "C.D.Nenitescu", Bucharest, Romania*

*<sup>3</sup>Institute of Macromolecular Chemistry "Petru Poni", Iasi, Romania*

*<sup>4</sup>Romanian Academy-Institute of Biochemistry (IBAR), Bucharest, Romania*



**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.I. - 11. SYNTHESIS OF NEW BIOLOGICAL ACTIVE TETRANORLABDANE COMPOUNDS WITH TRIAZOLE UNITS**

**Lidia Lungu<sup>1</sup>, Aculina Aricu<sup>1</sup>, Alexandru Ciocarlan<sup>1</sup>, Alic Barba<sup>1</sup>, Nicoleta Vornicu<sup>2</sup>**

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

<sup>2</sup>*Metropolitan Center of Research T.A.B.O.R, The Metropolitanate of Moldavia and Bukovina, Iasi, Romania*

**C.S.I. - 12. CHEMICAL ANALYSIS OF ITALIAN AND PORTUGUESE CHEESE**

**Dana M. Copolovici, Denissa A. Pop, Alina M. Ban, Lucian Copolovici**

*Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Research, Development, Innovation in Technical and Natural Sciences, "Aurel Vlaicu" University, Arad, Romania*

**C.S.I. - 13. SYNTHESIS AND PHYSICOCHEMICAL PROPERTIES OF NOVEL AZULENYL-SUBSTITUTED CHALCONES**

**Luiza Izabela Jinga<sup>1,2</sup>, Daniela Bala<sup>1</sup>, Constantin Mihailciuc<sup>1</sup>, Laszlo Tarko<sup>2</sup>, Simona Nica<sup>2</sup>**

<sup>1</sup>*Physical Chemistry Dept., University of Bucharest, Bucharest, Romania*

<sup>2</sup>*Institute of Organic Chemistry "C.D. Nenitescu" of Romanian Academy, Bucharest, Romania*

**VINERI / FRIDAY, 7 octombrie / october 2016**

**11<sup>30</sup> – 12<sup>30</sup> Președinte / Chairman:  
Dr. Petru FILIP**

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.I. - 14. REACTIONS OF ETHYL CYANOFORMATE WITH CYCLOIMMONIUM SALTS AND THEIR YLIDES: A DIRECT PATHWAY TO FUSED OR SUBSTITUTED AZAHETEROCYCLES**

**Cristina Maria Al Matarneh, Ramona Danac, Mircea O. Apostu, Ionel I. Mangalagiu**

*Department of Chemistry, Faculty of Chemistry, "Al. I. Cuza" University of Iasi, Romania*

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.I. - 15. SYNTHESIS AND ANTIMICOBACTERIAL PROPERTIES OF SOME NEW FUSED 4,4'-BIPYRIDINE DERIVATIVES**

**Anda Olaru, Ramona Danac, Ionel Mangalagiu, Catalina I. Ciobanu**

*Faculty of Chemistry, Alexandru Ioan Cuza University of Iasi, Romania.*

**C.S.I. - 16. NEW OXYGENATED FUEL ADDITIVES BASED ON FURFURYLIDENEGLYCEROL DERIVATIVES**

**Emil Stepan, Sanda Velea, Elena Radu, Gabriel Vasilevici, Elena-Emilia Oprescu, Cristina-Emanuela Enascuta, Adrian Radu**

*Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie ICECHIM, Bucuresti.*

**C.S.I. - 17. ONE-POT SYSTEM FOR SYNTHESIS OF ESTOLIDES BY USING A COMBINATION OF TWO ENZYMES**

**Anamaria Todea<sup>1,2</sup>, Francisc Peter<sup>1</sup>, Linda G. Otten<sup>3</sup>, Isabel W.C.E. Arends<sup>3</sup>, Carmen G. Boeriu<sup>2</sup>**

<sup>1</sup>*University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania*

<sup>2</sup>*Wageningen UR Food & Biobased Research, Bornse Weilanden, The Netherlands*

<sup>3</sup>*Biocatalysis group, Biotechnology Department, Delft University of Technology, Julianalaan, The Netherlands*

**C.S.I. - 18. SUPLIMENTE ALIMENTARE NATURALE CU PROPRIETATI DE STIMULARE SI REGLARE A FUNCTIILOR DIGESTIVE**

**St. Manea, V. Tamas**

*SC Hofigal Export Import SA, Departament C&D, Bucuresti*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**SECȚIUNEA II / SECTION II  
Chimie anorganică, bioanorganică și analitică / Inorganic,  
bioinorganic and analytical chemistry**

**Hotel Căciulata**

**MIERCURI / WEDNESDAY, 5 octombrie / october 2016**

**15<sup>30</sup> – 17<sup>30</sup> Președinte / Chairman:  
Conf. Radu SILAGHI DUMITRESCU**

**CONFERINȚE / LECTURES**

**C.S.II. - 1. SULFITE REDUCTASE AND NITRITE REDUCTASE CHEMISTRY:  
SIMILARITIES IN LINKAGE AND REDOX ISOMERISM**

**Radu Silaghi-Dumitrescu, Adrian Brănzanic, Alexandru Lupan, Mihai Surducan, Florina Scurtu,  
Cristina Bischin, Augustin Moț, Amr A.A. Attia**

*Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca, România*

**C.S.II. - 2. CHROMONIC SYSTEMS BASED ON TRANSITION METAL COMPLEXES**

**Elisabeta I. Szerb**

*Institute of Chemistry Timisoara of Romanian Academy, Timisoara, Romania*

**C.S.II. - 3. TEHNOLOGIE DE EXTRAGERE A AURULUI ȘI ARGINTULUI DIN MINEREURI  
AURIFERE PRIN SOLVIRE ÎN TIOSULFAT DE AMONIU**

**Jack Goldstein<sup>1</sup>, Liana Oșanu<sup>2</sup>**

*<sup>1</sup>S.C. CMC Chimie S.R.L. , sat Cărbunar, jud. Maramureș, România*

*<sup>2</sup>A.C. Helcor S.A. Baia Mare, România*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.II. - 4. UTILIZAREA ABLAȚIEI LASER (LA-ICP-OES) LA ANALIZA PROBELOR SOLIDE**

**Petre Capota**

*Institutul Național de Cercetare – Dezvoltare pentru Metale Neferoase și Rare – I.M.N.R., Pantelimon, jud. Ilfov*

**C.S.II. - 5. ATMOSPHERIC CO<sub>2</sub> FIXATION IN Cu(II) COORDINATION POLYMERS**

**Cristina Mozăceanu, Oana-Dorina Neagu, Cătălin Maxim, Delia-Laura Popescu,\***

**Marius Andruh**

*University of Bucharest, Faculty of Chemistry, Department of Inorganic Chemistry, Bucharest, Romania*

**C.S.II. - 6. SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF NEW POLYNUCLEAR ORGANOTIN(IV) COMPOUNDS**

**Gabriela-Andreea Manda<sup>1</sup>, Delia-Laura Popescu<sup>1</sup>, Cătălin Maxim<sup>1</sup>, Ionel Haiduc<sup>2</sup>**

**Marius Andruh<sup>1</sup>**

*<sup>1</sup>Department of Inorganic Chemistry, Faculty of Chemistry, University of Bucharest, Bucharest, Romania*

*<sup>2</sup>Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University, Cluj-Napoca, Romania*

**JOI / THURSDAY, 6 octombrie / october 2016**

**14<sup>30</sup>- 16<sup>30</sup>**

**Președinte / Chairman:**

**Dr. Elisabeta Ildyko SZERB**

**CONFERINȚE / LECTURES**

**C.S.II. - 7. ASPECTE ALE UNOR TENDINȚE CONTEMPORANE ÎN CHIMIA COMPUȘILOR COORDINATIVI ÎN BAZA LIGANZILOR OXIMICI**

**Eduard Coropceanu**

*Institutul de Chimie al AȘM, Chișinău, Rep. Moldova*

*Universitatea de Stat din Tiraspol, Chișinău, Rep. Moldova*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.II. - 8. NMR WITH ENHANCED SENSITIVITY AND RESOLUTION TO FOLLOW BIOMOLECULAR TRANSFORMATIONS**

**Paul R. Vasos<sup>1,2</sup>**

<sup>1</sup>*Universite Paris Descartes, Paris, France*

<sup>2</sup>*Universitatea Bucuresti, Bucuresti, Romania*

**C.S.II. - 9. NEWLY DESIGNED SIMULATION CHAMBER FOR ATMOSPHERIC CHEMISTRY INVESTIGATIONS**

**Romeo Iulian Olariu<sup>1,2</sup>, Cecilia Arsene<sup>1,2</sup>, Iustinian Bejan<sup>2</sup>**

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

<sup>2</sup>*"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region - CERNESIM, Iasi, Romania*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.II. - 10. POLYNUCLEAR COMPOUNDS WITH TRIPHENYLTI(IV) NODES**

**Alina-Elena Ghionoiu<sup>1</sup>, Delia-Laura Popescu<sup>1</sup>, Cătălin Maxim<sup>1</sup>, Ionel Haiduc<sup>2</sup>, Marius Andruh<sup>1</sup>**

<sup>1</sup>*Department of Inorganic Chemistry, Faculty of Chemistry, University of Bucharest, Bucharest, Romania*

<sup>2</sup>*Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University, Cluj-Napoca, Romania*

**C.S.II. - 11. ELECTROCHEMICAL BEHAVIOUR OF FERROCENE IN CHOLINE CHLORIDE-UREA DEEP EUTECTIC SOLVENT**

**Diana Adela Berinde<sup>1</sup>, Giorgiana Dana Barbu<sup>1</sup>, Oana Ciocirlan<sup>1</sup>, Magdalena-Rodica Bujduveanu<sup>1</sup>, Eleonora-Mihaela Ungureanu<sup>1</sup>**

<sup>1</sup>*Faculty of Applied Chemistry and Materials Science, University "Politehnica" Bucharest, Romania*

**C.S.II. - 12. ELECTRON TRANSFER KINETIKS FOR THE COBALTOCENE COUPLE (0/+1) IN TETRABUTYLAMMONIUM PERCHLORATE/ORGANIC SOLVENT MIXTURES**

**Diana Adela Berinde, Giorgiana Dana Barbu, Oana Ciocirlan, Magdalena-Rodica Bujduveanu, Eleonora-Mihaela Ungureanu**

*Faculty of Applied Chemistry and Materials Science, University "Politehnica" Bucharest, Bucharest, Romania*

**SECȚIUNEA III / SECTION III**  
**Chimie macromoleculară și supramoleculară / Macromolecular  
and supramolecular chemistry**

**Hotel Caciulata**

**MIERCURI / WEDNESDAY, 5 octombrie / october 2016**

**15<sup>30</sup> – 17<sup>30</sup> Președinte / Chairman:**  
**Prof. Ion GROSU**

**CONFERINȚE / LECTURES**

**C.S.III. - 1. SELF-ORDERING OF IMINE UNITS – AS A NEW PATHWAY OF  
CHITOSAN GELLING**

**Luminița Marin**

*"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.III. - 2. THERMOSENSITIVE MICROGELS BASED ON MALEILATED CURDLAN**  
**Irina Popescu, Irina Mihaela Pelin, Dana Mihaela Suflet**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 3. ORGANOCATALYTIC DEPOLYMERIZATION OF POLYETHYLENE  
TEREPHTHALATE (PET) WASTES WITH BIOMASS DERIVED DIOL FOR POLYESTER  
POLYOLS SYNTHESIS: MECHANISTIC CONSIDERATIONS OF THE TRANS-  
ESTERIFICATION REACTION**

**Simona Nica<sup>1</sup>, Sorana Ionescu<sup>2</sup>, Anamaria Hanganu<sup>1</sup>, Monica Duldner<sup>3</sup>, Stela Iancu<sup>3</sup>,  
Emeric Bartha<sup>1</sup>**

<sup>1</sup>*Institute of Organic Chemistry "C.D. Nenitescu", Bucharest, Romania*

<sup>2</sup>*Physical Chemistry Dept., University of Bucharest, Bucharest, Romania*

<sup>3</sup>*ICECHIM, Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.III. - 4. SYNTHESIS, OPTICAL AND ELECTROCHEMICAL CHARACTERIZATION OF NOVEL POLY(ARYLENEVNYLENE) AND POLY(ARYLENEETHYNYLENE) COPOLYMERS CONTAINING 3,6 OR 2,7 - DISUBSTITUTED CARBAZOLE AND PERYLENDIMIDE**

**Ana-Maria Solonaru, Mircea Grigoras**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 5. CONFORMATIONAL RESTRUCTURATIONS INDUCED BY PLASTICIZER EFFECT OF POLYVINYL ALCOHOL IN FUNCTIONALIZED POLYSULFONE SYSTEMS**

**Anca Filimon, Ecaterina Avram**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 6. SYNTHESIS AND SENSING CHARACTERISTICS OF COPOLYMERS CONTAINING SEQUENCES OF BORONIC ACID DERIVATIVES**

**Andreea-Laura Chibac, Violeta Melinte, Tinca Buruiana, Emil Constantin Buruiana**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 7. SYNTHESIS OF A NEW FLUORESCENT SENSOR BEARING PYRENE POLYMERIC FLUOROPHORE AND CYSTEINE UNITS VIA ATRP**

**Viorica Elena Podasca, Tinca Buruiana, Emil C. Buruiana**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**JOI / THURSDAY, 6 octombrie / october 2016**

**14<sup>30</sup>- 16<sup>30</sup> Președinte / Chairman:  
Dr. Valeria HARABAGIU**

**CONFERINȚE / LECTURES**

**C.S.III. - 8. NEW FEATURES OF AZO-DYE CONTAINING MATERIALS FOR NONLINEAR OPTICS**

**Florica Adriana Jerca, Valentin Victor Jerca, Mitica Cezar Spiridon, Nicoleta Doriana Banu, Dumitru Mircea Vuluga**

*"Costin D. Nenitescu" Center for Organic Chemistry of the Romanian Academy, Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.III. - 9. POLY(LACTIDE-CO-GLYCOLDE) MICROSPHERES LOADED WITH DEXAMETHASONE FOR THE TREATMENT OF POSTERIOR EYE SEGMENT DISEASES**

**Gheorghe Fundueanu, Marieta Constantin, Sanda Bucatariu**  
*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 10. IMPACT OF MICROSTRUCTURES ON SURFACE PROPERTIES IN QUATERNIZED POLYSULFONE/CELLULOSE ACETATE PHTHALATE BLENDS**

**Mihaela-Dorina Onofrei, Anca Filimon, Iuliana Stoica**  
*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 11. CHITOSAN BASED HYDROGELS VIA IMINOBORONATE MOTIF AS PROMISING MATERIALS FOR THE TREATMENT OF CANDIDIASIS**

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

**C.S.III. - 12. SMART POLY(LACTIDE-CO-GLYCOLIDE) NANOPARTICLES LOADED WITH DEXAMETHASONE FOR OCULAR THERAPY**

**Sanda Bucatariu, Marieta Constantin, Gheorghe Fundueanu**  
*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**C.S.III. - 13. THERMAL AND OPTICAL CHARACTERISTICS OF SOME AROMATIC HETEROCYCLIC POLYETHERS**

**Alina-Mirela Ipate<sup>1</sup>, Corneliu Hamciuc<sup>1</sup>, Mihaela Homocianu<sup>1</sup>, Gabriela Lisa<sup>2</sup>**  
<sup>1</sup>*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*  
<sup>2</sup>*Department of Chemical Engineering, Gheorghe Asachi Technical University, Iasi, Romania*

**C.S.III. - 14. SYNTHESIS AND CIRCULAR DICHROISM STUDIES OF POLY(N-ACRYLOYL-L-ALANINE-CO-N-ACRYLOYL-L-HISTIDINE) PREPARED BY FREE RADICAL COPOLYMERIZATION**

**Mioara Murariu, Marioara Nechifor, Emil C. Buruiana**  
*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*



**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**VINERI / FRIDAY, 7 octombrie / october 2016**

**11<sup>30</sup> – 12<sup>30</sup> Președinte / Chairman:**

**Dr. Mircea VULUGA**

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.III. - 15. DNA OR CARBAZOLE CHROMOPHORES? THE BEST PARTNER FOR N-SUBSTITUTED AMIDES COPOLYMERS**

**Anca Aldea<sup>1</sup>, Ana Maria Albu<sup>2</sup>**

*"Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science:*

*<sup>1</sup>Department of General Chemistry*

*<sup>2</sup>Department of Bioresources and Polymer Science, Advanced Polymer Materials Group*

**C.S.III. - 16. NOVEL POLYMER ASSEMBLES WITH POTENTIAL USE AS SOLID ELECTROLYTES MEMBRANES**

**Ioana Maior<sup>2</sup> Ana-Maria Albu<sup>1</sup>**

*Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science:*

*<sup>1</sup>Bioresources and Polymer Science Department, Advanced Polymer Materials Group*

*<sup>2</sup>Inorganic Chemistry, Physical Chemistry and Electrochemistry Department*

**C.S.III. - 17. SUPERPOROUS SALICYL-IMINE-CHITOSAN HYDROGELS**

**Manuela-Maria Iftime, Luminița Marin, Simona Morariu**

*"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*

**C.S.III. - 18. THERMO-RESPONSIVE MICROGELS FROM POLY(N-ISOPROPYLACRYLAMIDE-CO-N-ISOPROPYLMETHACRYLAMIDE) FOR CONTROLLED DELIVERY OF DEXAMETHASONE**

**Marieta Constantin, Sanda Bucatariu, Gheorghe Fundueanu**

*"Petru Poni" Institute of Macromolecular Chemistry Iasi, Romania*

**C.S.III. - 19. COUPLED TGA/DTA-FTIR-MS TECHNIQUES IN THE STRUCTURAL CHARACTERIZATION OF BIOLOGICALLY ACTIVE COMPOUNDS**

**Cristian-Dragos Varganici<sup>1</sup>, Liliana Roșu<sup>1</sup>, Irina-Alexandra Crudu<sup>1</sup>, Dan Roșu<sup>1</sup>, Marian Crudu<sup>2</sup>**

*<sup>1</sup>Advanced Research Centre for Bionanoconjugates and Biopolymers "Petru Poni" Institute of Macromolecular Chemistry, Iasi, România*

*<sup>2</sup>National Research & Development Institute for Textiles and Leather Division: Leather and Footwear Research Institute, Bucharest, Romania*

**SECȚIUNEA IV / SECTION IV**  
**Materiale noi și nanomateriale & Inginerie chimică și**  
**bioinginerie**  
**Advanced materials and Nanomaterials & Chemical engineering**

**Hotel Căciulata**

**MIERCURI / WEDNESDAY, 5 octombrie / october 2016**

**15<sup>30</sup> – 17<sup>30</sup> Președinte / Chairman:**  
**Prof. Valentin BADEA**

**CONFERINȚE / LECTURES**

**C.S.IV. - 1. LIPASES: POWERFUL ENZYMES FOR BIOMATERIALS SYNTHESIS  
STARTING FROM RENEWABLE SOURCES.**

**Francisc Peter<sup>1</sup>, Anamaria Todea<sup>1</sup>, Diana Aparaschivei<sup>1</sup>, Valentin Badea<sup>1</sup>, Carmen G. Boeriu<sup>2</sup>,**

*<sup>1</sup>University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania*

*<sup>2</sup>Wageningen UR Food & Biobased Research, Bornse Weilanden, The Netherlands*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.IV. - 2. IONIC MICROSPHERS BASED ON PHOSPHATE CELLULOSE**

**Dana M. Suflet, Irina Popescu, Irina M. Pelin**

*"Petru Poni" Institute of Macromolecular Chemistry, Iași, România*

**C.S.IV. - 3. THE SYNTHESIS AND CHARACTERIZATION OF A NEW TYPE OF  
NANOSTRUCTURED LIPID CARRIERS BASED ON BIOACTIVE VEGETABLE OILS  
WITH HEDERA HELIX AND SALIX EXTRACTS**

**Laura-Vasilica Arsenie, Ioana Lăcătușu, Nicoleta Badea, Gabriela Niculae**

*Faculty of Applied Chemistry and Materials Science, University "Politehnica" of Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.IV. - 4. POLYESTERS FOR COATING SURFACES**

**Alexandrina Nan, Monica Circu, Alexander Bunge, Teodora Radu, Ioana Feher, Rodica Turcu**

*National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj Napoca, Romania*

**C.S.IV. - 5. HIFU EFFECT ON MAGNETIC POLYELECTROLYTE CAPSULES**

**Carmen Stavarache<sup>1</sup>, Timothy Mason<sup>2</sup>, Mircea Vinatoru<sup>3</sup>**

<sup>1</sup>*“Costin D. Nenitescu” Institute of Organic Chemistry, Bucharest, Romania*

<sup>2</sup>*Faculty of Health and Life Sciences, Coventry University, Coventry, UK*

<sup>3</sup>*SonoChem Centre Ltd, Kenilworth, UK*

**JOI / THURSDAY, 6 octombrie / october 2016**

**14<sup>30</sup>- 16<sup>30</sup>**

**Președinte / Chairman:**

**Prof. Francisc PETER**

**CONFERINȚE / LECTURES**

**C.S.IV. - 6. PHOTOCHROMIC INVESTIGATION OF XANTHYLIUM DERIVATIVES**

**Liliana Cseh**

*Institute of Chemistry Timisoara of Romanian Academy, Timisoara, Romania*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S.IV. - 7. THEORETICAL STUDIES ON NITROGEN AND/OR BORON DOPED GRAPHENE NANORIBBONS**

**Iulia Păușescu<sup>1</sup>, Raluca Pop<sup>2</sup>, Mihai Medeleanu<sup>1</sup>**

<sup>1</sup>*Politehnica University Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania*

<sup>2</sup>*University of Medicine and Pharmacy “Victor Babes” Timisoara, Faculty of Pharmacy, Timișoara, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S.IV. - 8. NANOSTRUCTURATED THIN FILMS OBTAINED BY ESI-DEPOSITION METHOD**

**Alina Moroșan, Adrian Fudulu, Daniela Istrati, Dan Eduard Mihaiescu**

*Department of Organic Chemistry "C.D Nenitescu" Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, Bucharest, Romania*

**C.S.IV. - 9. BIO-DERIVED GASOLINE COMPONENT BY FURFURAL HYDROGENATION**

**Mihaela Bombos<sup>1</sup>, Andreea Turcanu<sup>2</sup>, Sanda Velea<sup>1</sup>, Gabriel Vasilevici<sup>1</sup>, Rami Doukeh<sup>2</sup>, Dorin Bombos<sup>3</sup>**

*<sup>1</sup>National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, Bucharest, Romania*

*<sup>2</sup>SC Research Institute For Auxiliary Organics Products SA, ICPAO Medias*

*<sup>3</sup>Petroleum - Gas University of Ploiesti, Romania*

**C.S.IV. - 10. HIDROGENUL, VECTOR DE ENERGIE**

**Ioan Iordache<sup>1</sup>, Ioan Ștefănescu<sup>1</sup>, Adrian Gheorghe<sup>2</sup>, Iordache Mihaela<sup>3</sup>**

*<sup>1</sup>Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice ICSI, Rm. Valcea, Romania*

*<sup>2</sup> Universitatea "Politehnica" Bucuresti, Bucharest, Romania*

*<sup>3</sup>Institutul National de Cercetare – Dezvoltare pentru Ecologie Industriala – ECOIND, Sucursala Rm. Valcea, Rm. Valcea, Romania*

**C.S.IV. - 11. ULTRASONIC/MICROWAVE NONCONVENTIONAL TECHNIQUES AS NEW TOOLS FOR NONCHEMICAL AND CHEMICAL PROCESSES**

**Mircea Vinatoru<sup>1</sup>, Ioan Calinescu<sup>2</sup>**

*<sup>1</sup> SonoChem Centre Ltd, Kenilworth, UK*

*<sup>2</sup>Department of Bioresources and Polymer Science, University Politehnica of Bucharest, Romania*

**C.S.IV. - 12. MATHEMATICAL MODELLING OF MOLECULAR DISTILLATION PROCESS**

**Nicoleta-Gabriela Ștefan<sup>1</sup>, Petrica Iancu<sup>1</sup>, Valentin Pleșu<sup>1</sup>, Alexandra –Elena Bonet-Ruiz<sup>1</sup>, Jordi Bonet-Ruiz<sup>2</sup>**

*<sup>1</sup>Centre for Technology Transfer for the Process Industries, University "Politehnica" Bucharest, Bucharest, România*

*<sup>2</sup>Department of Chemical Engineering, University of Barcelona, Spain*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**SECȚIUNEA V / SECTION V**

**Protecția mediului și monitorizare/  
Chemistry of the Environment**

**Hotel Căciulata**

**MIERCURI / WEDNESDAY, 5 octombrie / october 2016**

**15<sup>30</sup> – 17<sup>30</sup> Președinte / Chairman:  
Prof. Lucian COPOLOVICI**

**CONFERINȚE / LECTURES**

**C.S. V-1. SUSTAINABLE INDUSTRY AND SMART COMMUNITIES**

**Anders Stolan<sup>1</sup>, Gavril Musca, Cristian Teodorescu<sup>1</sup>, Ioana Mischie<sup>2</sup>**

*<sup>1</sup>International Development Norway, Trondheim, Norvegia*

*<sup>2</sup>Universitatea „Politehnica” București, România*

**C.S. V-2. MODELING OF <sup>14</sup>C RELEASE FROM A LOW AND INTERMEDIATE  
LEVEL RADIOACTIVE WASTE REPOSITORY AND ITS EFFECTS ON THE  
POPULATION AND THE ENVIRONMENT**

**Irina Paraschiv, Crina Bucur, Mirela Olteanu**

*Institute for Nuclear Research, Mioveni, Arges, Romania*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S. V-3. CONTINUOUS CAPACITIVE DEIONIZATION OF BRACKISH WATER  
USING REGENERABLE FLOWABLE ELECTRODES**

**Konstantinos Dermentzis<sup>1,2</sup>**

*<sup>1</sup>Department of Petroleum and Mechanical Engineering, Laboratory of General and Physical  
Chemistry, Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece*

*<sup>2</sup>Hephaestus Advanced Research Laboratory, Eastern Macedonia and Thrace Institute of  
Technology, Kavala, Greece*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S. V-4. PRELIMINARY STUDIES FOR MICROALGAE BIOMASS HARVESTING BY ELECTROFLOCCULATION USING A CONTINUOUS SYSTEM**

**Ana-Maria Galan, Sanda Velea, Vlad Enache, Emil Stepan, Gabriel Vasilievici, Catalin Matei**

*Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie ICECHIM, București, România*

**JOI / THURSDAY, 6 octombrie / october 2016  
14<sup>30</sup>- 16<sup>30</sup>**

**Președinte / Chairman:**

**Ing. Cristian TEODORESCU**

**CONFERINȚE / LECTURES**

**C.S. V-5. SECONDARY ORGANIC AEROSOL FORMATION FROM THE OH INITIATED DEGRADATION OF HYDROXYLATED AROMATIC COMPOUNDS**

**Iustinian Bejan<sup>1</sup>, Romeo Iulian Olariu<sup>1,2</sup>, John Wenger<sup>3</sup>**

<sup>1</sup>*“Alexandru Ioan Cuza” University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region - CERNESIM, Iasi, Romania*

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

<sup>3</sup>*Department of Chemistry and Environmental Research Institute, Univ. College Cork, Ireland*

**COMUNICĂRI ORALE / ORAL COMMUNICATIONS**

**C.S. V-6. INCREASING OF CO<sub>2</sub> CONCENTRATION: GOOD OR BAD EFFECT ON THE ENVIRONMENT?**

**Lucian Copolovici<sup>1</sup>, Ülo Niinemets<sup>2</sup>**

<sup>1</sup>*Research Center for Natural and Technical Sciences – ICDISTN, Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University, Romania, Arad, Romania*

<sup>2</sup>*Institute of Agricultural and Environmental Sciences, Estonian University of Life Science, Tartu, Estonia*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**C.S. V-7. CARBON DIOXIDE STORED IN TREES A SIMPLE WAY TO REDUCING GREENHOUSE**

**Daniela Simina Ștefan<sup>1,2</sup>, Mircea Ștefan<sup>3</sup>, Cristina Orbeci<sup>1</sup>, Nicolae Sdrulă<sup>4</sup>, Cristina Șerbănescu<sup>2</sup>**

*<sup>1</sup>„Politehnica” University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Analytical Chemistry and Environmental Engineering, Bucharest, Romania*

*<sup>2</sup>S.C. IPROCHIM S.A., Bucharest, Romania*

*<sup>3</sup>Titu Maiorescu University, Pharmacy Faculty, Bucharest, Romania*

*<sup>4</sup>ABR, Bucharest, Romania*

**C.S. V-8. STUDII PRIVIND ECOTOXICITATEA POLUANȚILOR PREZENȚI IN APELE UZATE GEOTERMALE**

**Luisa Roxana Popescu<sup>1</sup>, Mihai Niță Lazăr<sup>2</sup>, Mihaela Iordache<sup>1</sup>, Luoana Florentina Pascu<sup>2</sup>, Carol Blaziu Lehr<sup>2</sup>**

*<sup>1</sup>National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest-Subsidiary Ramnicu Valcea, Ramnicu Valcea, Romania*

*<sup>2</sup>National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest, Romania*

**C.S. V-9. PHYSICO-CHEMICAL PARAMETERS OF THE WASTEWATERS RESULTED FROM THE BIOSOURING TREATMENT OF THE CELLULOSIC/LIGNOCELLULOSIC FABRICS**

**Mihaela Dochia<sup>1</sup>, Simona Gavrița<sup>2,1</sup>, Monica Pustianu<sup>3,1</sup>, Daniel Tomescu<sup>1</sup>**

*<sup>1</sup>Research Development Innovation in Technical and Natural Sciences Institute of “Aurel Vlaicu” University, Arad, Romania*

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## POSTERE / POSTERS

### Hotel COZIA

#### SECȚIUNEA I / SECTION I

Chimie organică, bioorganică și alimentară / Organic,  
bioorganic and food chemistry

MIERCURI / WEDNESDAY, 5 octombrie / october 2016

Discuții postere / Posters session: 17<sup>30</sup> – 19<sup>00</sup>

**P.S.I. - 1. AUTOMATIC CLASSIFICATION OF EXTRACTS OBTAINED FROM DIFFERENT PARTS OF ARNICA MONTANA PLANT**

**Alina Nicolescu<sup>1</sup>, Gabriela Liliana Ailiese<sup>1</sup>, Mihaela Cristea<sup>1</sup>, Ana-Maria Macsim<sup>1</sup>  
Alexandru Ciocârlan<sup>2</sup>, Doina Dănilă<sup>3</sup>, Camelia P. Ștefanache<sup>3</sup>, Călin Deleanu<sup>1,4</sup>**

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*<sup>2</sup>Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Republic of Moldova*

*<sup>3</sup>„Stejarul” Biological Research Centre, Piatra Neamt, Romania*

*<sup>4</sup>„Costin D. Nenitescu” Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I. - 2. PREPARATION AND CHARACTERIZATION OF NANOEMULSION ENCAPSULATING GINGER EXTRACT**

**Mariana Deleanu<sup>1,2</sup>, Camelia S. Stancu<sup>1</sup>, Mona E. Popa<sup>2</sup>, Anca V. Sima<sup>1</sup>**

*<sup>1</sup>„Nicolae Simionescu” Institute of Cellular Biology and Pathology of the Romanian Academy, Bucharest, Romania*

*<sup>2</sup>University of Agronomical Sciences and Veterinary Medicine, Faculty of Biotechnology, Bucharest*



**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 3. AN APPROACH TOWARDS OBTAINING SOME NEW MOLECULAR CAGES CONTAINING PHENANTHROLINE DERIVATIVES AS SIDE CHAIN UNITS**

**Levi Gabrian, Niculina D. Hădade, Anamaria Terec, Ion Grosu**

*Department of Organic Chemistry, Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca, Romania*

**P.S.I. - 4. NEW ISOXAZOLE DERIVATIVES AS POTENTIAL EXOGENOUS CHEMICAL ELICITORS IN PLANTS**

**Florentina Georgescu<sup>1</sup>, Emilian Georgescu<sup>2</sup>, Anca Oancea<sup>3</sup>, Alina Nicolescu<sup>4,5</sup>, Lucian Vlădulescu<sup>1</sup>, Marius-Constantin Vlădulescu<sup>1</sup>, Daniela Marinescu<sup>2</sup>, Călin Deleanu<sup>4,5</sup>**

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*<sup>5</sup> "C. D. Nenitescu" Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I. - 5. NEW BIS-PYRIDINE-IMIDAZOLE/BENZIMIDAZOLE DERIVATIVES: SYNTHESIS AND THEIR BIOLOGICAL PROPERTIES**

**Dorina Amăriucăi-Mantu, Vasilichia Antoci, Costel Moldoveanu, Bogdan Bratanovici, Ionel I. Mangalagiu**

*"Al. I. Cuza" University, Faculty of Chemistry, Organic Chemistry Dep., Iasi, Romania*

**P.S.I. - 6. GREEN SOLVENTS IN NATURAL PRODUCT TRANSFORMATIONS. TERPENE OZONOLYSIS IN DIMETHYLCARBONATE**

**Vladilena Girbu<sup>1,2</sup>, Elena Pruteanu<sup>1,2</sup>, Nicon Ungur<sup>1,2</sup>, Alic Barbă<sup>1</sup>, Veaceslav Kulcițki<sup>1,2</sup>**

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*<sup>2</sup> University of the Academy of Sciences of Moldova, Chisinau, Republic of Moldova*

**P.S.I. - 7. DESIGN AND SYNTHESIS OF THE CANDESARTAN KEY INTERMEDIATE**

**Lucia Pintilie<sup>1</sup>, Catalina Neguț<sup>1</sup>, Amalia Stefaniu<sup>1</sup>, Rodica Guta<sup>1</sup>, Elena Mihai<sup>1</sup>, Mihaela Deaconu<sup>1</sup>, Constantin Tanase<sup>1</sup>, Horia Popescu<sup>1</sup>, Miron T. Caproiu<sup>2</sup>, Maria Maganu<sup>2</sup>**

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 8. DETERMINATION OF NONCOVALENT FGF2-GALACTOSAMINOGLYCAN INTERACTIONS BY CHIP-BASED HIGH RESOLUTION MASS SPECTROMETRY**

**Laurentiu Popescu<sup>1,2</sup>, Alina D. Zamfir<sup>1,2</sup>**

*<sup>1</sup>National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania*

*<sup>2</sup> West University of Timisoara, Romania*

**P.S.I. - 9. SYNTHESIS OF  $\Delta^{8,9}$ -BICYCLOHOMOFARNESENIC ACID GUANIDINE DERIVATIVES FROM NORAMBREINOLIDE**

**A.N. Aricu, K.I. Kuchkova, A.N. Barba, E.S. Secara, I.P. Dragalin, N.D. Ungur, P.F. Vlad**  
*Institute of Chemistry of the Academy of Sciences of Moldova, Chisinau, Moldova*

**P.S.I. - 10. MICROWAVE ASSISTED SYNTHESIS OF SOME BENZOFURAN DERIVATIVES WITH FLUORESCENT PROPERTIES**

**Gheorghită Zbancioc, Costel Moldoveanu, Vasilichia Antoci, Dorina Mantu, Ionel Mangalagiu**

*„Al. I. Cuza” University Iasi, Faculty of Chemistry, Iasi, Romania*

**P.S.I. - 11. CAHB CO-CRYSTALS OF CINCHONINE AND SOME CARBOXYLIC ACIDS**

**Mihai Deleanu<sup>1</sup>, Sergiu Shova<sup>2</sup>, Alina Nicolescu<sup>1,2</sup>, Florina Dumitru<sup>3</sup>**

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*<sup>3</sup>“Politehnica” University Bucharest, Bucharest, Romania*

**P.S.I. - 12. STRUCTURAL CHARACTERIZATION OF NOVEL BARBITURATES OBTAINED BY KNOEVENAGEL CONDENSATION**

**Emese Gál, Balázs Brém, Luiza-Ioana Găină, Luminița Silaghi-Dumitrescu**

*Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 13. CAPITALIZATION OF WHEAT WASTES BIOMASS BY MILD SOLVENT EXTRACTION**

**Stefan-Ovidiu Dima, Irina Fierăscu, Fănica Bacalum, Mălina Deșliu-Avram, Gabriel Vasilievici, Adrian Radu, Florin Oancea**

*National Research and Development Institute for Chemistry and Petrochemistry ICECHIM  
Bucharest, Bucharest, Romania*

**P.S.I. - 14. SYNTHESIS OF NEW BIOLOGICAL ACTIVE TETRANORLABDANE COMPOUNDS WITH THIADIAZOLE UNITS**

**Crina Smigon<sup>1</sup>, Lidia Lungu<sup>1</sup>, Aculina Aricu<sup>1</sup>, Alexandru Ciocarlan<sup>1</sup>, Alic Barba<sup>1</sup>, Nicoleta Vornicu<sup>2</sup>**

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<sup>2</sup>*Metropolitan Center of Research T.A.B.O.R., The Metropolitanate of Moldavia and Bukovina, Iasi, Romania*

**P.S.I. - 15. EVOLUTION OF PHENOLIC COMPOUNDS IN GRAPE BERRIES SKINS EXTRACTS OF DIFFERENT GRAPE CULTIVARS**

**Elisabeta-Irina Geană<sup>1</sup>, Roxana-Elena Ionete<sup>1</sup>, Alexandru Ciocârlan<sup>2,3</sup>**

<sup>1</sup>*National R&D Institute for Cryogenics and Isotopic Technologies – ICIT Rm. Valcea, Rm. Valcea, Romania*

<sup>2</sup>*Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova*

<sup>3</sup>*Tiraspol State University, Chisinau, Moldova*

**P.S.I. - 16. ESI-IT-MS CHARACTERIZATION OF AMINO ACIDS FUNCTIONALIZED WITH OLIGOSACCHARIDE DERIVATIVES**

**Ioana Sisu,<sup>1</sup> Loreta-Andrea Bozin,<sup>1</sup> Mihai-Cosmin Pascariu,<sup>1,2,3</sup> Nicolae Dinca,<sup>4</sup>  
Alina Georgescu,<sup>1</sup> Anca Dragomirescu,<sup>1</sup> Eugen Sisu<sup>1\*</sup>**

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<sup>3</sup>*“Vasile Goldiș” Western University of Arad, Faculty of Pharmacy, Arad, Romania*

<sup>4</sup>*“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 17. LONG BONDS INVOLVED IN FRAGMENTATION OF MONOSACCHARIDE DERIVATIVES – AN AB INITIO INVESTIGATION**

**Mihai-Cosmin Pascariu<sup>1,2,3</sup>, Madian Rafaila<sup>4</sup>, Mihai Medeleanu<sup>4</sup>,**

**Ramona Curpan<sup>5</sup>, Liliana Pacureanu<sup>5</sup>, Eugen Sisu<sup>1\*</sup>**

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**JOI / THURSDAY, 6 octombrie / october 2016**

**Discuții postere / Posters session: 18<sup>00</sup> – 19<sup>30</sup>**

**P.S.I. - 18. STRUCTURAL CHARACTERIZATION OF A CIS POLYFUNCTIONAL DECALIN**

**Anca Hirtopeanu<sup>1</sup>, Michaela Dina Stanescu<sup>2</sup>, Mihaela Serb<sup>2</sup>, Fabio Ziarelli<sup>3</sup>, Cristina Stavarache<sup>1</sup>**

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*<sup>3</sup> Universite Aix Marseille, Spectropole, Marseille, France*

**P.S.I. - 19. OZONOLYSIS IN DEEP EUTECTIC SOLVENTS: FROM TERPENES TO LIGNIN**

**Marina Grinco<sup>1</sup>, Vladilena Girbu<sup>1,2</sup>, Alic Barbă<sup>1</sup>, Nicon Ungur<sup>1,2</sup>, Veaceslav Kulcițki<sup>1,2</sup>**

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 20. THE EFFECT OF PARACETAMOL ON THE <sup>1</sup>H NMR PROFILE OF URINE**  
**Alina Nicolescu<sup>1</sup>, Mihaela Cristea<sup>1</sup>, Paul Vasos<sup>2</sup>, Natalia Simionescu<sup>1,3</sup>, Calin Deleanu<sup>1,4</sup>**

*<sup>1</sup>"Petru Poni" Institute for Macromolecular Chemistry, Romanian Academy, Iasi, Romania.*

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*<sup>3</sup>"Nicolae Simionescu" Institute of Cellular Biology and Pathology, Romanian Academy, Bucharest, Romania*

*<sup>4</sup>"Costin D. Nenitescu" Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I. - 21. A NEW SYNTHESIS OF PYRROLES FROM BENZIMIDAZOLIUM N-CYANOMETHYLIDES AND ALKYNE DIPOLAROPHILES**

**Denisa Dumitrescu<sup>1</sup> Emilian Georgescu<sup>2</sup> Mino R. Caira<sup>3</sup> Constantin Draghici<sup>4</sup>  
Florentina Georgescu<sup>5</sup> Florin Albota<sup>4</sup> Florea Dumitrascu<sup>4</sup>**

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*<sup>5</sup> Teso Spec S. R. L., Fundulea, Calarasi, Romania.*

**P.S.I. - 22. SYNTHESIS OF GUANIDINE DERIVATIVES OF 12-AMINO-11-DIHOMODRIMANE-8 $\alpha$ -OL AND 13-AMINO-14,15-DINORLABD-8(9)-ENE**

**A.N. Aricu, K.I. Kuchkova, A.N. Barba, E.S. Secara, I.P. Dragalin, N.D. Ungur, P.F. Vlad**  
*Institute of Chemistry of the Academy of Sciences of Moldova, Chisinau, Moldova*

**P.S.I. - 23. MICROENCAPSULATED PLANT PROTECTION BIOPRODUCTS IN SALIFIED BIOMATRIX**

**Mariana Popescu, Florin Oancea, Elena Radu, Mălina Deșliu-Avram**

*National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM, Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 24. IS IT FEASIBLE TO DISCRIMINATE FOR DEPRESSION BY NMR URINE ANALYSIS?**

**Alina Nicolescu<sup>1</sup>, Mihaela Balan-Porcărașu<sup>1</sup>, Romana Vulturar<sup>2</sup>, Bianca Andreica-Sandica<sup>3</sup>, Andrei Miu<sup>4</sup>, Calin Deleanu<sup>1,5</sup>**

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*<sup>2</sup>"Iuliu Hatieganu" University of Medicine and Pharmacy, Department of Cell and Molecular Biology, Cluj-Napoca, Romania*

*<sup>3</sup>"Iuliu Hatieganu" University of Medicine and Pharmacy, Department of Pediatric Psychiatry, Cluj-Napoca, Romania*

*<sup>4</sup>"Babeș-Bolyai" University, Faculty of Psychology and Educational Sciences, Cluj-Napoca, Romania*

*<sup>5</sup>"Costin D. Nenitescu" Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I. - 25. NEW SCHIFF BASES BEARING FUROXAN MOIETY AS POTENTIAL NITRIC OXIDE DONORS IN PLANTS**

**Emilian Georgescu<sup>1</sup>, Florentina Georgescu<sup>2</sup>, Alina Nicolescu<sup>3,4</sup>, Anca Oancea<sup>5</sup>, Lucian Vladulescu<sup>2</sup>, Marius-Constantin Vladulescu<sup>2</sup>, Calin Deleanu<sup>3,4</sup>**

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*<sup>5</sup>National Institute of Research and Development for Biological Sciences, Bucharest, Romania*

**P.S.I. - 26. PESTICIDES ANALYSIS FROM COMMERCIAL AND EXPERIMENTAL WINE**

**Camelia Elena Luchian<sup>1</sup>, Valeriu V. Cotea<sup>1</sup>, Cintia Colibaba<sup>1</sup>, Roxana Angela Tucaliuc<sup>1</sup>, Marius Niculaua<sup>2</sup>**

*<sup>1</sup> "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania*

*<sup>2</sup> Romanian Academy – Iași Branch, Oenology Research Centre, Iași, Romania.*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 27. PYRIDAZINE-FLUORINE DERIVATIVES USED IN TREATING OF WINES**  
**Roxana Angela Tucaliuc<sup>1</sup>, Marius Niculaua<sup>2</sup>, Ionel Mangalagiu<sup>3</sup>, Camelia Elena Luchian<sup>1</sup>, Valeriu V. Cotea<sup>1</sup>**

<sup>1</sup> "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania

<sup>2</sup> Romanian Academy – Iasi Branch, Oenology Research Centre, Iasi, Romania.

<sup>3</sup> "Al. I. Cuza" University, Organic Chemistry Dep., Iasi, Romania.

**P.S.I. - 28. NEW MECHANISTIC INSIGHTS ON THE CYCLOADDITION OF THE BENZIMIDAZOLIUM YLIDES**

**Costel Moldoveanu, Gheorghita Zbancioc, Dorina Mantu (Amariuca), Vasilichia Antoci, Dan Maftai, Ionel Mangalagiu**

„Al. I. Cuza” University Iasi, Faculty of Chemistry, Iasi, Romania

**P.S.I. - 29. STUDIES ON THE VARIATION OF MOLECULAR DESCRIPTORS AND PROPERTIES FOR L-ASPARTIC ACID IN DIFFERENT SOLVENTS: A COMPUTATIONAL APPROACH**

**Amalia Stefaniu<sup>1</sup>, Lucia Pintilie<sup>1</sup>, Cătălina Negut<sup>1</sup>, Irina Lupescu<sup>1,2</sup>**

<sup>1</sup> National Institute for Chemical - Pharmaceutical Research and Development - Bucharest, Bucharest, Romania

<sup>2</sup> Spiru Haret University, University of Veterinary Medicine, Bucharest, Romania

**P.S.I. - 30. NOVEL BIS-ANTHRACENE-IMIDAZOLIUM SALT: UV-VIS, AND NMR STUDIES ON IONS ACETATE COMPLEXATION**

**Vasilichia Antoci<sup>1</sup>, Dorina Amariuca-Mantu<sup>1</sup>, Cătălina Ciobanu<sup>2</sup>, Gheorghita Zbancioc<sup>1</sup>, Maria-Mirabele Grigore<sup>1</sup>, Ionel I. Mangalagiu<sup>1</sup>**

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<sup>2</sup> "Al. I. Cuza" University, Faculty of Chemistry, Department of Research, Iasi, Romania

**P.S.I. - 31. SELECTIVE ALKYLATION OF M-CRESOL WITH ISOPROPYL ALCOHOL UNDER SOLVENT-FREE CONDITIONS**

**Florina Teodorescu<sup>1</sup>, Adrian Enache<sup>1</sup>, Mădălina Săndulescu<sup>2</sup>**

<sup>1</sup> „C.D. Nenitescu” Center of Organic Chemistry, Romanian Academy Bucharest, Romania

<sup>2</sup> Department of Organic Chemistry, Biochemistry and Catalysis, Faculty of Chemistry, University of Bucharest, Bucharest, Romania

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.I. - 32. STRUCTURAL CHANGES IN CORN STALKS WASTE DUE TO THE ACTION OF SOLVENTS BY DIFFERENT EXTRACTION METHODS**

**Marius Ghiurea, Ștefan-Ovidiu Dima, Irina Fierăscu, Sanda Maria Doncea, Florin Oancea**

*Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie - ICECHIM, București, România*

**P.S.I. - 33. DESIGN AND MOLECULAR DOCKING STUDY OF THE LINEZOLID; THEORETICAL STUDIES**

**Lucia Pintilie<sup>1</sup>, Amalia Stefaniu<sup>1</sup>**

*<sup>1</sup>National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, Romania*

**P.S.I. - 34. QUALITATIVE CHEMICAL ANALYSIS POSSIBILITIES USING DIFFERENTIAL MASS SPECTROMETRY AND QUANTUM CHEMICAL CALCULATIONS**

**Nicolae Dinca,<sup>1</sup> Mihai-Cosmin Pascariu,<sup>2,3,4</sup> Alina Georgescu,<sup>2</sup> Loreta-Andrea Bozin,<sup>2</sup> Georgeta Simu,<sup>2</sup> Eugen Sisu<sup>2\*</sup>**

*<sup>1</sup>"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental, Arad, Romania*

*<sup>2</sup>"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Faculty of Medicine, Timișoara, Romania*

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*<sup>4</sup>"Vasile Goldiș" Western University of Arad, Faculty of Pharmacy, Arad, Romania*

**P.S.I. - 35. CONTINUOUS KINETIC RESOLUTION OF RACEMIC AROMATIC ALCOHOLS IN PACKED BED BIOREACTORS**

**Paula Borza, Adinela Cimporescu, Anamaria Todea, Cristina Paul, Francisc Peter**

*University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania*



SECȚIUNEA II / SECTION II  
Chimie anorganică, bioanorganică și analitică / Inorganic,  
bioinorganic and analytical chemistry

MIERCURI / WEDNESDAY, 5 octombrie / october 2016

Discuții postere / Posters session: 17<sup>30</sup> – 19<sup>00</sup>

**P.S.II. - 1. THE VANADIUM(IV) BINUCLEAR COORDINATION COMPOUND BASED ON 1-PHENYL-1,3-BUTANEDIONE ISONICOTINOYLHYDRAZONE**

**Mihaela Rotaru<sup>1</sup>, Maria Cocu<sup>1</sup>, Mihaela Silion<sup>2</sup>, Ion Bulhac<sup>1</sup>, Victor Kravtsov<sup>3</sup>, Polina Bourosh<sup>3</sup>**

<sup>1</sup>Institute of Chemistry of Academy of Sciences of Moldova, Chisinau, R. Moldova

<sup>2</sup>Institute of Macromolecular Chemistry "P. Poni", Iasi, Romania

<sup>3</sup>Institute of Applied Physics, Academy of Sciences of Moldova, Chisinau, R. Moldova

**P.S.II. - 2. NEW IRON(III) COORDINATION COMPOUNDS WITH 2,3-BUTANEDIONE BIS ((ISO)NICOTINOYLHYDRAZONE)**

**Ion Bulhac<sup>1</sup>, Lidia Cuba<sup>1</sup>, Mihaela Silion<sup>2</sup>, Diana Dragancea<sup>1</sup>, Paulina Bourosh<sup>3</sup>**

<sup>1</sup>Institute of Chemistry of the ASM., Chisinau, R. Moldova

<sup>2</sup>Institute of Macromolecular Chemistry "P. Poni", Iasi, Romania

<sup>3</sup>Institute of Applied Physics of the ASM., Chisinau, R. Moldova

**P.S.II. - 3. PROTOTIP MICROSPECTROMETRU PENTRU DETERMINAREA ELEMENTELOR GENERATOARE DE VAPORI CHIMICI PRIN SPECTROMETRIA DE EMISIE OPTICĂ ÎN MICROTORȚA DE PLASMĂ CUPLATĂ CAPACITIV**

**Tiberiu Frențiu<sup>1</sup>, Michaela Ponta<sup>1</sup>, Eugen Darvasi<sup>1</sup>, Sinziana Butaciu<sup>1</sup>, Maria Frențiu<sup>2</sup>, Sergiu Cadar<sup>2</sup>, Dorin Petreuş<sup>3</sup>**

<sup>1</sup>Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca, România

<sup>2</sup>Institutul Național de Cercetare și Dezvoltare Optoelectronică București – Institutul de Cercetare pentru Instrumentație Analitică, Cluj-Napoca, România

<sup>3</sup>Universitatea Tehnică Cluj-Napoca, Facultatea de Electronică, Telecomunicații și Tehnologia Informației, Cluj-Napoca, România

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.II. - 4.    PROTOTIP MICROSPECTROMETRU PENTRU DETERMINAREA ELEMENTELOR PRIN SPECTROMETRIA DE EMISIE OPTICĂ ÎN MICROTORȚA DE PLASMĂ CUPLATĂ CAPACITIV CU EVAPORATOR ELECTROTHERMIC**

**Tiberiu Frențiu<sup>1</sup>, Michaela Ponta<sup>1</sup>, Eugen Darvasi<sup>1</sup>, Sînziana Butaciu<sup>1</sup>, Maria Frențiu<sup>2</sup>, Dorin Petreuş<sup>3</sup>**

*<sup>1</sup>Universitatea Babeş-Bolyai, Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca, România*

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*<sup>3</sup>Universitatea Tehnică Cluj-Napoca, Facultatea de Electronică, Telecomunicații și Tehnologia Informației, Cluj-Napoca, România*

**P.S.II. - 5.    A COMPREHENSIVE NBO STUDY REGARDING THE BOND FORMATION IN SILOXANES, GERMOXANES AND STANNOXANES**

**Ionuț-Tudor Moraru, Gabriela Nicoleta Nemeș**

*Facultatea de Chimie și Inginerie Chimică, Universitatea Babeş-Bolyai, Cluj-Napoca, România*

**P.S.II. - 6.    DERIVED EXPRESSIONS FOR THE ENTHALPIES OF POLYNUCLEAR COMPLEX FORMATION REACTIONS IN HETEROGENEOUS MULTICOMPONENT SYSTEMS**

**Igor Povar, Oxana Spinu**

*Institute of Chemistry of the Academy of Sciences of Moldova, Chisinau, Republic of Moldova*

**P.S.II. - 7.    CHEMICAL CHARACTERIZATION OF A SERIES OF SAMPLES AS SECONDARY SOURCES FOR RARE EARTH ELEMENTS**

**Laurentiu-Valentin Soroaga<sup>1,2</sup>, Cecilia Arsene<sup>1,2</sup>, Mitica Pintilei<sup>3</sup>, Valentin Nica<sup>4</sup>, Catalin Borcia<sup>4</sup>, Romeo-Iulian Olariu<sup>1,2</sup>**

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

*<sup>2</sup>„Alexandru Ioan Cuza” University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region (CERNESIM), Iasi, Romania*

*<sup>3</sup>„Alexandru Ioan Cuza” University of Iasi, Faculty of Geography and Geology, Iasi, Romania*

*<sup>4</sup>„Alexandru Ioan Cuza” University of Iasi, Faculty of Physics, Iasi, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.II. - 8. COPPER(I) AND SILVER(I) COORDINATION COMPOUNDS WITH VOLUMINOUS LIGANDS**

**Krisztina T. Kegyes, Marian Olaru, Cristian Silvestru, Ciprian I. Raț**

*Supramolecular Organic and Organometallic Chemistry Centre, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University Cluj-Napoca, Romania*

**P.S.II. - 9. ASSESMENT OF STEAM CONCENTRATION INFLUENCE ON UO<sub>2</sub> PELLETS OXIDATION**

**Iulia Dumitrescu, Maria Mihalache, Tiberiu Meleg**

*RATEN- Institute for Nuclear Research, Mioveni, Romania*

**P.S.II. - 10. POSIBILITĂȚI ANALITICE DE DETERMINARE PRIN ICP-OES A MICROELEMENTELOR DIN DEȘEURILE SOLIDE REZULTATE DIN INDUSTRIA EXTRACTIVĂ**

**Lenuța Enache, Petre Capota, Luminița Mara, Eleonora Neagu, Victoria Soare, Victoria Purcaru, Laura Bărbulescu**

*Institutul Național de Cercetare – Dezvoltare pentru Metale Neferoase și Rare – I.M.N.R. Pantelimon, jud. Ilfov*

**P.S.II. - 11. CHROMIUM (III) COMPLEX ANIONS IN THE CHEMICAL ANALYSIS. THIORIDAZINE DETERMINATION.**

**Anca Gănescu<sup>1</sup>, Florina Dumitrescu (Ciolan)<sup>1</sup>, Andreea Simionescu<sup>1</sup>, Liana-Simona Sbîrnă<sup>1</sup>, Elena Ionescu<sup>2</sup>**

*<sup>1</sup>University of Craiova, Faculty of Sciences, Department of Chemistry, Craiova, România*

*<sup>2</sup>University of Medicine and Pharmacy, Craiova, Romania*

**P.S.II. - 12. NEW ZnO/AG NANOMATERIALS BASED OF GELATIN AND AZAHETEROCYCLIC SKELETON OF POTENTIAL INTEREST IN TISSUE ENGINEERING**

**Violeta Vasilache,<sup>1,2</sup> Dorina Mantu,<sup>1</sup> Vasilichia Antoci<sup>1</sup>, Ionel I. Mangalagiu<sup>1</sup>**

*<sup>1</sup>"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry; CERNESIM Research Center; Iasi, Romania.*

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

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**JOI / THURSDAY, 6 octombrie / october 2016  
Discuții postere / Posters session: 18<sup>00</sup> – 19<sup>30</sup>**

**P.S.II. - 13. EVALUATION OF THE POTENTIAL AS CATALYST FOR MANNICH REACTIONS OF SELECTED IONIC DIORGANOANTIMONY(III) COMPOUNDS**

**Andrea Biró, Ciprian I. Raț, Cristian Silvestru**

*Supramolecular Organic and Organometallic Chemistry Centre, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University Cluj-Napoca, Romania*

**P.S.II. - 14. SINTEZA NOILOR LIGANZI DIPIRIDINICI ȘI ASAMBLAREA COMPUȘILOR COORDINATIVI ÎN BAZA LOR**

**Vasile Lozovan<sup>1</sup>, Eduard Coropceanu<sup>1,3</sup>, Victor Bold<sup>3</sup>, Paulina Bouroș<sup>2</sup>**

*<sup>1</sup>Institutul de Chimie al AȘM, Chișinău, Rep. Moldova*

*<sup>2</sup>Institutul de Fizică aplicată al AȘM, Chișinău, Rep. Moldova*

*<sup>3</sup>Universitatea de Stat din Tiraspol, Chișinău, Rep. Moldova*

**P.S.II. - 15. GROUP 12 METAL ORGANOSELENOLATES. SYNTHESIS AND STRUCTURE.**

**Alexandra Pop, Anca Silvestru**

*Supramolecular Organic and Organometallic Chemistry Centre, Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca, Romania*

**P.S.II. - 16. NONANUCLEAR NICKEL(II) CLUSTER BASED ON O-VANILLINAND PIVALATE LIGANDS**

**Iurie L. Malaestean<sup>1</sup>, Diana Dragancea<sup>1</sup>, Sergiu Shova<sup>2</sup>**

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

*<sup>2</sup>"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**P.S.II. - 17. DETERMINATION OF PROLINE FROM BIOSTIMULATORS FOR PLANTS BY UV- VIS METHOD**

**Ilie Iulian Minca<sup>1</sup>, Irina Ciobanu<sup>1</sup>, Fanica Bacalum<sup>1</sup>, Mihaela Manolache<sup>1</sup>, Mateescu Mariana<sup>1</sup>**

*<sup>1</sup>National Research & Development Institute for Chemistry and Petrochemistry ICECHIM, Bucharest, Romani*

**P.S.II. - 18. THE STRUCTURAL FEATURES OF COPPER(II) AND COBALT(II)  
COORDINATION COMPOUNDS OF  
2-[(1-HYDROXYBUTAN-2-YLIMINO)METHYL]PHENOL**

**Peter Petrenko<sup>1</sup>, Yurii Chumakov<sup>1</sup>, Lidia Cuba<sup>2</sup>, Vasiliu Graur<sup>2</sup>, Victor Tsapkov<sup>2</sup>,  
Aurelian Gulea<sup>2</sup>**

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

<sup>2</sup>*Moldova State University, Chisinau, Republic of Moldova*

**P.S.II. - 19. SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF  
NEW COMPLEX COMPOUNDS OF CU(II) WITH THREE SCHIFF BASES DERIVED  
FROM 2,2'-(PROPANE-1,3-DIYLDIOXY)DIBENZALDEHYDE**

**Florina Dumitrescu (Ciolan)<sup>1</sup>, Anca Gănescu<sup>1</sup>, Liana-Simona Sbîrnă<sup>1</sup>, Andreea  
Simionescu<sup>1</sup>, Elena Ionescu<sup>2</sup>**

<sup>1</sup>*University of Craiova, Faculty of Sciences, Department of Chemistry, Craiova, România*

<sup>2</sup>*University of Medicine and Pharmacy, Craiova, România*

**P.S.II. - 20. SYNTHESIS AND X-RAY CHARACTERIZATION OF DI- AND  
TRICARBOXYLATE Zn(II) 1D AND 3D COORDINATION POLYMERS WITH BIPYRIDINE  
LIGANDS**

**A. A. Vitiu<sup>1</sup>, E. B. Coropceanu<sup>2</sup>, P. N. Bourosh<sup>1</sup>**

<sup>1</sup>*Institute of Applied Physics Academy of Sciences of Moldova, Chisinau, R. Moldova*

<sup>2</sup>*Institute of Chemistry Academy of Sciences of Moldova, Chisinau, R. Moldova*

**P.S.II. - 21. SYNTHESIS AND CHARACTERIZATION OF NEW DISSYMMETRIC  
BRIDGED NICKEL(II) COMPLEX**

**Vlad Andrei Neacșu<sup>1</sup>, Cătălin Maxim<sup>1</sup>, Marius Andruh<sup>1</sup>**

<sup>1</sup>*University of Bucharest, Faculty of Chemistry, Department of Inorganic Chemistry,  
Bucharest, Romania*

**P.S.II. - 22. GERMYLENE AND STANNYLENE STABILIZED BY  
A BIS-SULFONE Pincer-TYPE LIGAND**

**Noémi Deak<sup>1,2</sup>, Gabriela Nemeș<sup>1</sup>, David Madec<sup>2</sup>**

<sup>1</sup>*Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca,  
România*

<sup>2</sup>*Université de Toulouse, UPS, LHFA, CNRS, LHFA UMR 5069 Toulouse, France*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.II. - 23. GC-MS ANALYSIS OF LOW POLARITY FRACTIONS FROM  
EXTRACT OF ARNICA MONTANA**

**Victoria Codita<sup>1</sup>, Alexandru Ciocarlan<sup>a1,2</sup>, Aculina Aricu<sup>2</sup>, Doina Danila<sup>3</sup>,  
Camelia P. Stefanache<sup>3</sup>, Mihaela Silion<sup>4</sup>, Alina Nicolescu<sup>4</sup>, Calin Deleanu<sup>4</sup>**

<sup>1</sup>*Tiraspol State University, Chisinau, Moldova*

<sup>2</sup>*Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova*

<sup>3</sup>*"NIRDBS / Stejarul" Biological Research Centre, Piatra Neamt, Romania*

<sup>4</sup>*"Petru Poni" Institute of Macromolecular Chemistry of the Romanian Academy, Iasi,  
Romania*

**P.S.II. - 24. NOVEL EXAMPLES OF COORDINATION POLYMERS WITH  
ORGANOMETALLIC LINKERS**

**Levente Kiss, Ciprian I. Raț, Cristian Silvestru**

*Centre of Supramolecular Organic and Organometallic Chemistry, Department of Chemistry,  
Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University  
Cluj-Napoca, Romania*

**P.S.II. - 25. STRUCTURAL PATTERNS IN BIS(FUORENYL)STANNANE  
DERIVATIVES**

**Raluca Șeptelean, Alexandra Pop, Gabriela Nemeș**

*Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of  
Chemistry, Cluj-Napoca, Romania*

SECȚIUNEA III / SECTION III  
Chimie macromoleculară și supramoleculară / Molecular and  
supramolecular chemistry

MIERCURI / WEDNESDAY, 5 octombrie / october 2016

Discuții postere / Posters session: 17<sup>30</sup> – 19<sup>00</sup>

**P.S.III. - 1. DEVELOPMENT OF NOVEL ORGANOCATALYTIC SYSTEMS FOR EFFICIENT GLYCOLYTIC DEPOLYMERIZATION OF POLYETHYLENE TEREPHTHALATE (PET) WASTE**

**Simona Nica<sup>1</sup>, Monica Duldner<sup>2</sup>, Stela Iancu<sup>2</sup>, Mihai Deleanu<sup>1</sup>, Emeric Bartha<sup>1</sup>**

<sup>1</sup>Institute of Organic Chemistry "C.D. Nenitescu" of the Romanian Academy, Bucharest, Romania

<sup>2</sup>National Institute of Research and Development for Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania

**P.S.III. - 2. DYNAMIC CONSTITUTIONAL FRAMEWORKS, BASED ON SQUALENE, PEG AND PEI COMPONENTS AS DNA PACKING DRUG DELIVERY NANOCARRIERS**

**Bogdan-Florin Crăciun<sup>1</sup>, Lilia Clima<sup>1</sup>, Mariana Pinteală<sup>1</sup>, Mihai Bărboiu<sup>2</sup>**

<sup>1</sup>"Petru Poni" Institute of Macromolecular Chemistry, "INTELCENTER" Center of Advanced Research in Bionanoconjugates and Biopolymers, Iasi, Romania

<sup>2</sup>Institut Européen des Membranes, Montpellier, France

**P.S.III. - 3. STUDY ON MORPHOLOGY OF ORGANIC-INORGANIC COMPOSITES BASED ON POLYMER HYDROGELS AND RED MUD**

**Teodor Sandu<sup>1</sup>, Andrei Sârbu<sup>1</sup>, Rodica Zăvoianu<sup>2</sup>, Elvira Alexandrescu<sup>1</sup>, Cătălina Paula Spătăreanu<sup>1</sup>, Anița Laura Radu<sup>1</sup>, Ana Mihaela Florea<sup>1</sup>, Stela Iancu<sup>1</sup>, Monica Duldner<sup>1</sup>, Steluța Apostol<sup>1</sup>**

<sup>1</sup>National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM Bucharest, Bucharest, Romania

<sup>2</sup>University of Bucharest (UPB), Faculty of Chemistry: Dept. of Organic Chemistry, Biochemistry and Catalysis, Romania

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.III. - 4. TANNED LEATHERS PROPERTIES MODIFICATION AS A RESULT OF ARTIFICIAL AGEING**

**Dan Roșu<sup>1</sup>, Marian Crudu<sup>2</sup>, Liliana Roșu<sup>1</sup>, Irina-Alexandra Crudu<sup>1</sup>, Cristian-Dragos Varganici<sup>1</sup>**

*<sup>1</sup>Advanced Research Centre for Bionanoconjugates and Biopolymers "Petru Poni" Institute of Macromolecular Chemistry, Iasi, România*

*<sup>2</sup>National Research & Development Institute for Textiles and Leather Division: Leather and Footwear Research Institute, Bucharest, Romania*

**P.S.III. - 5. BIOSYNTHESIS OF LEVAN, A MULTIFUNCTIONAL POLYSACCHARIDE, FROM ACETOBACTER XILINUM DSMZ – 2004**

**Angela Casarica, Misu Moscovici, Ana Despina Ionescu, Delia Maria Jitea**

*National Chemical-Pharmaceutical for Research and Development Institute - ICCF, Bucharest, Romania*

**P.S.III. - 6. FLUORESCENCE BEHAVIOUR AND DNA BINDING AFFINITY STUDIES OF NEW PYRIDYL-INDOLIZINE DERIVATIVES**

**Narcisa Laura Marangoci, Alexandru Rotaru**

*"Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania*

**JOI / THURSDAY, 6 octombrie / october 2016**

**Discuții postere / Posters session: 18<sup>00</sup> – 19<sup>30</sup>**

**P.S.III. - 7. THE THERMAL STABILITY OF TANNED BOVINE LEATHER**

**Liliana Roșu<sup>1</sup>, Irina-Alexandra Crudu<sup>1</sup>, Dan Roșu<sup>1</sup>, Cristian-Dragos Varganici<sup>1</sup>, Marian Crudu<sup>2</sup>**

*<sup>1</sup>Advanced Research Centre for Bionanoconjugates and Biopolymers "Petru Poni" Institute of Macromolecular Chemistry, Iasi, România*

*<sup>2</sup>National Research & Development Institute for Textiles and Leather Division: Leather and Footwear Research Institute, Bucharest, Romania*

**P.S.III. - 8. PROPRIETĂȚILE DE MATERIAL DE TAPIȚERIE ALE SPUMELOR POLIURETANICE FLEXIBILE OBTINUTE DIN POLIOLI REACTIVI ȘI POLIMER – POLIOL NEREACTIV**

**Steluța Căpitanu, Ioana Tuță, Elena Guță**

*S.C. OLTCHIM S.A. – Centrul de Cercetări, Rm. Vâlcea, România*



**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.III. - 9. SYNTHESIS, PHOTOPHYSICAL AND REDOX PROPERTIES OF NEW D-P-A POLYMERS WITH PENDANT ELECTRON-WITHDRAWING GROUPS**

**Loredana Văcăreanu, Mircea Grigoraș**

*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**P.S.III. - 10. SYNTHESIS AND CHARACTERIZATION OF NEW HYDROGELS BASED ON CHITOSAN AND 2-HYDROXY-5-NITROBENZALDEHYDE**

**Anda Olaru, Mariana Pinteala, Mihai Barboiu, Luminița Marin**

*"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*

**P.S.III. - 11. VEGETABLE OIL-BASED POLYOLS FOR FLEXIBLE POLYURETHANE SLABSTOCK FOAMS**

**Constantin Teodorescu, Amalia Ionescu, Costinela-Laura Gáspár, Ileana Curcă, Elena Guță, Daniela Marinescu, Stanca Căpitanu, Laurențiu Andrei**

*S.C. Olchim S.A. Research Center, Râmnicu Vâlcea, Romania*

**P.S.III. - 12. BIOBASED EPOXY MATRIX FROM MALEINIZED CASTOR OIL AND DIGLYCIDYL ETHER OF BISPHENOL A**

**Elena Marlică, Fănică Mustață, Cristian-Dragoș Varganici, Dan Roșu**

*"Petru Poni" Institute of Macromolecular Chemistry Iasi, Romania*

SECȚIUNEA IV / SECTION IV

Materiale noi și nanomateriale & Inginerie chimică  
Advanced materials and Nanomaterials & Chemical engineering

MIERCURI / WEDNESDAY, 5 octombrie / october 2016

Discuții postere / Posters session: 17<sup>30</sup> – 19<sup>00</sup>

P.S.IV. - 1. COMPOSITES BASED ON POLYHYDROXYALKANOATES AND MECHANICALLY TREATED BACTERIAL CELLULOSE

Ioana Chiulan<sup>1</sup>, Denis Mihaela Panaitescu<sup>1</sup>, Adriana Nicoleta Frone<sup>1</sup>, Vlad Tofan<sup>1,2</sup>, Raluca Augusta Gabor<sup>1</sup>, Cristian Andi Nicolae<sup>1</sup>, Zina Vuluga

<sup>1</sup> The National Institute for Research & Development in Chemistry and Petrochemistry, Bucharest, Romania

<sup>2</sup> Cantacuzino National Institute of Research and Development for Microbiology and Immunology, Bucharest, Romania

P.S.IV. - 2. PREPARATION AND CHARACTERIZATION OF SOME LANTHANIDE COMPOUNDS WITH PYRIDINIUM LIGANDS AS THIN FILMS WITH SENSING POTENTIAL

Aurel Tăbăcaru<sup>1</sup>, Rodica Mihaela Dinică<sup>1</sup>, Angela Datcu<sup>2</sup>, Geta Cârâc<sup>1</sup>

<sup>1</sup> Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunarea de Jos" University of Galați, Galați, Romania

<sup>2</sup> National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania

P.S.IV. - 3. LIQUID PHASE PLASMA PROCESSING FOR THE SYNTHESIS OF TITANIA-ZINC FERRITE NANOCOMPOSITE

Maria Ignat<sup>1,2</sup>, Petrisor Samoila<sup>2</sup>, Camelia Miron<sup>3</sup>, Iulian Asaftei<sup>1</sup>, Liviu Sacarescu<sup>2</sup>, Valeria Harabagiu<sup>2</sup>

<sup>1</sup> Laboratory of Material Chemistry, Department of Chemistry, "Alexandru Ioan Cuza" University, Iasi, Romania

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

<sup>3</sup> Leibniz-Institute for Plasma Science & Technology, Greifswald, Germany

P.S.IV. - 4. SYNTHETIC STRATEGIES FOR ZINC- AND COPPER-ZINC FERRITE PREPARATION USING OXALATE PRECURSORS

Monica M. Venter<sup>1</sup>, Iulia E. Nagy<sup>1</sup>, Anca L. Erdei-Ardeleanu<sup>1</sup>, Firuta Goga<sup>1</sup>, Mircea Nasui<sup>2</sup>

<sup>1</sup> "Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

<sup>2</sup> Technical University, Materials Science Laboratory - Thin Films, Cluj-Napoca, Romania

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.IV. - 5. FACILE PREPARATION OF IODINE-DOPED GRAPHENE BASED ON NUCLEOPHILIC SUBSTITUTION**

**Radu-Florian Ene<sup>1</sup>, Adriana Marinou<sup>1</sup>, Constantin Teodorescu<sup>2</sup>**

<sup>1</sup> *Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice ICSI, Str. Uzinei, Rm. Valcea, Romania*

<sup>2</sup> *Research Center OLTCHIM, Rm Valcea, Romania*

**P.S.IV. - 6. OBTAINING OF NEW NANOGELS FOR CONTROLLED DELIVERY OF BIOLOGICALLY ACTIVE SUBSTANCES**

**Bogdan Cursaru, Catalina-Paula Spatarelu<sup>1</sup>, Anita-Laura Radu<sup>1</sup>, Anamaria Zaharia<sup>1</sup>, Andrei Sarbu<sup>1</sup>, Tanta-Verona Iordache<sup>1</sup>, Ana-Mihaela Florea<sup>1</sup>, Bogdan Trica<sup>1</sup>, Teodor Sandu<sup>1</sup>, Mircea Teodorescu<sup>2</sup>**

<sup>1</sup> *National Institute for Chemistry and Petrochemistry Research and Development-ICECHIM, Bucharest, Romania*

<sup>2</sup> *Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania*

**P.S.IV. - 7. COMPLEX CHARACTERIZATION OF THE WOOL FABRICS DEPOSITED BY ZnO NANOPARTICLES**

**Maria Birzu, Florin Cotorobai, Stefan Frunza, Constantin Paul Ganea, Lucian Diamandescu, Irina Zgura, Ligia Frunza**

*National Institute of Materials Physics, Magurele, Romania*

**P.S.IV. - 8. EFFECT OF SILVER NANOPARTICLES ON THE PROPERTIES OF PLA BASED BIONANOCOMPOSITES FOR THE MEDICAL DEVICES FIELD**

**Maria Răpă<sup>1</sup>, Elena Grosu<sup>1</sup>, Petruța Stoica<sup>1</sup>, Mihaela Hetvary<sup>1</sup>, Maria Lungu<sup>2</sup>, Rodica Tatia<sup>2</sup>, Bogdănel-Silvestru Munteanu<sup>3</sup>, Mariana-Carmen Chifiriuc<sup>4</sup>, Traian Zaharescu<sup>5</sup> Cornelia Vasile<sup>3</sup>**

<sup>1</sup> *I.C.P.E. Bistrita S.A., Bistrita, Bistrita-Nasaud, Romania*

<sup>2</sup> *National Institute of Research and Development for Biological Sciences, Bucharest, Romania*

<sup>3</sup> *Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

<sup>4</sup> *University of Bucharest, Faculty of Biology, Department of Microbiology, Bucharest, Romania*

<sup>5</sup> *R&D National Institute for Electrical Engineering, Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.IV. - 9. DEVELOPMENT AND CHARACTERIZATION OF NEW POLYHYDROXYALKANOATES/CHITOSAN BIOACTIVE COMPOSITES FOR FOOD PACKAGING APPLICATION**

**Maria Râpă<sup>1</sup>, Elena Grosu<sup>1</sup>, Ancuța Roxana Trîfoi<sup>1</sup>, Anamaria Irimia<sup>2</sup>, Raluca Nicoleta Darie-Niță<sup>2</sup>, Cornelia Vasile<sup>2</sup>, Amalia Carmen Miteluț<sup>3</sup>, Elisabeta Elena Tănase<sup>3</sup>, Mona Elena Popa<sup>3</sup>, Jan Thomas Rosnes<sup>4</sup>, Morten Sivertsvik<sup>4</sup>**

<sup>1</sup> ICPAO S.A., Medias, Sibiu, Romania

<sup>2</sup> Petru Poni<sup>1</sup> Institute of Macromolecular Chemistry, Iasi, Romania

<sup>3</sup> University of Agronomic Sciences and Veterinary Medicine Bucharest, Faculty of Biotechnology, Bucharest, Romania

<sup>4</sup> Nofirna AS, Dept. Processing Technology, Stavanger, Norway

**P.S.IV. - 10. ALKYLATION OF PHENOLS IN THE PRESENCE OF CATALYSTS BASED ON TUNGSTOPHOSPHORIC ACID**

**Gabriel Vasilievici<sup>1</sup>, Sanda Velea<sup>1</sup>, Mihaela Bombos<sup>1</sup>, Rodica Ganea<sup>1</sup>, Dorin Bombos<sup>2</sup>**

<sup>1</sup> National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, Bucharest, Romania

<sup>2</sup> Petroleum - Gas University of Ploiesti, Ploiesti, Romania

**P.S.IV. - 11. RESEARCH ACTIVITIES IN THE FIELD OF AGEING MANAGEMENT AND LONG TERM OPERATION**

**Dumitra Lucan<sup>1</sup>, Gheorghita Jinescu<sup>2</sup>**

<sup>1</sup> Institute for Nuclear Research (INR), Pitesti, Romania

<sup>2</sup> University Politehnica Bucharest

**P.S.IV. - 12. DEHYDRATION OF FRUCTOSE TO 5-HYDROXYMETHYL-2-FURFURAL CATALYZED BY H-Zn-ZSM 5**

**Ancuța Trîfoi<sup>1</sup>, Augustin Crucean<sup>1</sup>, Sanda Velea<sup>2</sup>, Rami Doukeh<sup>1</sup>, Olimpiu Blăjan<sup>1</sup>, Dorin Bombos<sup>3</sup>**

<sup>1</sup> SC Research Institute For Auxiliary Organics Products SA, ICPAO Medias

<sup>2</sup> National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, Bucharest, Romania

<sup>3</sup> Petroleum - Gas University of Ploiesti, Ploiesti, Romania

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**JOI / THURSDAY, 6 octombrie / october 2016  
Discuții postere / Posters session: 18<sup>00</sup> – 19<sup>30</sup>**

**P.S.IV. - 13. A NEW AGRO-BASED RESOURCE FOR NANOCELLULOSE REINFORCEMENT EXTRACTION**

**Adriana Nicoleta Frone<sup>1</sup>, Ioana Chiulan<sup>1</sup>, Denis Mihaela Panaitescu<sup>1</sup>, Raluca Augusta Gabor<sup>1</sup>, Cristian Andi Nicolae<sup>1</sup>, Doina Michaela Iorga<sup>1</sup>, Valentin Raditoiu<sup>1</sup>**

<sup>1</sup> *The National Institute for Research & Development in Chemistry and Petrochemistry, Bucharest, Romania*

**P.S.IV. - 14. STUDII ELECTROCHIMICE PRIVIND TESTAREA DE NOI MATERIALE NANOCOMPOZITE UTILIZATE PENTRU ELABORAREA DE SENZORI ELECTROCHIMICI**  
**Luisa Roxana Popescu**<sup>1</sup>, **Eleonora-Mihaela Ungureanu**<sup>2</sup>, **Mihaela Iordache**<sup>1</sup>, **Luoana Florentina Pascu**<sup>3</sup>, **Georgiana-Luiza Arnold**<sup>2</sup>

<sup>1</sup> *National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest-Subsidiary Ramnicu Valcea, Ramnicu Valcea, Romania*

<sup>2</sup> *University “Politehnica” of Bucharest, Faculty of Applied Chemistry and Material Science, Bucharest, Romania*

<sup>3</sup> *National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest, Romania*

**P.S.IV. - 15. A NEW HYBRID MATERIAL WITH POTENTIAL BIOMEDICAL APPLICATION**

**Adina-Elena Segneanu**<sup>1</sup>, **Ioan Bica**<sup>1</sup>, **Adrian Bobica**<sup>1</sup>, **Daniel Damian**<sup>2</sup>, **Ioan Grozescu**<sup>2</sup>,

<sup>1</sup> *Scient Research Center for Instrumental Analysis, CROMATEC- PLUS SRL Romania, Tâncăbești, Romania*

<sup>2</sup> *Universitatea Politehnica Timisoara, Timișoara*

**P.S.IV. - 16. A NEW ELECTROCHEMICAL MICRO IMMUNOSENSORS FOR ADIPONECTIN DETECTION**

**Mihaela Savin**<sup>1</sup>, **Dana Stan**<sup>2</sup>, **Eliza Oprea**<sup>3</sup>, **Carmen Moldovan**<sup>4</sup>, **George Muscalu**<sup>4</sup>  
**Rodica Iosub**<sup>4</sup>, **Carmen-Marinela Mihailescu**<sup>2</sup>

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<sup>2</sup> *DDS Diagnostic, Bucharest, Romania*

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<sup>4</sup> *National Institute for R&D in Microtechnologies (IMT) Bucharest, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.IV. - 17. ZINC OXIDE NANOPARTICLES AS CATALYST IN THE *IN SITU* TRANSFORMATION OF A BIS(PYRIDINIUM) DIQUATERNARY SALT**

**Aurel Tăbăcaru<sup>1</sup>, Rodica Mihaela Dinică<sup>1</sup>, Viorica Mușat<sup>2</sup>**

<sup>1</sup> Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunărea de Jos" University of Galați, Galați, Romania

<sup>2</sup> Center of Nanostructures and Functional Materials – CNMF, Department of Materials Science and Environment, Faculty of Engineering, "Dunarea de Jos" University of Galați, Galați, Romania

**P.S.IV. - 18. STUDY OF PHYSICO-CHEMICAL PROPERTIES OF EXTRACTS FROM SECONDARY FOREST PRODUCTS**

**Natalia Petrov, Tudor Lupascu, Nina Timbaliuc**

*Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Republic of Moldova*

**P.S.IV. - 19. CRYSTALLIZATION OF SOME CALCIUM ORTHOPHOSPHATES IN THE PRESENCE OF A MODIFIED POLYSACCHARIDE**

**Irina M. Pelin<sup>1</sup>, Dana M. Suflet<sup>1</sup>, Maria Butnaru<sup>2</sup>, Raluca Darie Nita<sup>1</sup>, Magdalena Aflori<sup>1</sup>**

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

<sup>2</sup> Gr. T. Popa University of Medicine and Pharmacy, Iasi, Romania

**P.S.IV. - 20. MONOMERI ȘI OLIGOMERI URETAN ACRILICI PENTRU MATERIALE COMPOZITE DENTARE**

**Gherman Timea, Trifoi Ancuța, Cuc Stanca, Blăjan Olimpiu**

*Institutului de Cercetări Produse Auxiliare Organice SA, Medias, Romania*

*Universitatea Babes-Bolyai, Cluj-Napoca, Romania*

**P.S.IV. - 21. DESIGN OF DRUG-LOADED POLYHYDROXYALKANOATES SYSTEMS FOR POTENTIAL USE IN COLORECTAL CANCER THERAPY**

**Ionut-Cristian Radu, Bianca Galateanu, Ariana Hudita, Eugenia Vasile, Paul Octavian Stanescu, Catalin Zahar**

*Universitatea Politehnica din Bucuresti, Grup Materiale Polimerice Avansate*

**P.S.IV. - 22. IODINE DOPING OF GRAPHENE FOR ENHANCED ELECTROCATALYTIC OXYGEN REDUCTION REACTION IN FUEL CELL**

**Adriana Marinouiu, Elena Carcadea, Irina Petreanu, Catalin Capris, Irina Vagner, Amalia Soare, Mihai Varlam**

*RD Institute for Cryogenics and Isotopic Technologies- ICIT, Rm Valcea, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.IV. - 23. GRAPHENE BASED MATERIALS AS LOW COST HYDROGEN FUEL CELL CATALYST**

**Elena Marin<sup>1</sup>, Bianca Sucea<sup>1</sup>, Constantin Teodorescu<sup>2</sup>, Daniela Marinescu<sup>2</sup>, Felicia Bucura<sup>1</sup>, Marius Constantinescu<sup>1</sup>**

<sup>1</sup> RD Institute for Cryogenics and Isotopic Technologies- ICIT, 4Uzinei St., Rm Valcea, Romania

<sup>2</sup> Research Center OLTCHIM Rm Valcea, Romania

**P.S.IV. - 24. EVALUATION OF FLY ASH-POLYPROPYLENE PROPERTIES**

**Zina Vuluga<sup>1</sup>, Jenica Paceaگی<sup>2</sup>, Florin Oancea<sup>1</sup>, Michaela Iorga<sup>1</sup>, Dorel Florea<sup>1</sup>, Marina Martin<sup>2</sup>, Luiza Jecu<sup>1</sup>, Valentin Apostol<sup>3</sup>, Cristina Ciobanu<sup>3</sup>**

<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry-ICECHIM, Bucharest, Romania

<sup>2</sup> CEPROCIM S.A., Bucharest, Romania

<sup>3</sup> University Politehnica Bucharest, Faculty of Mechanical Engineering and Mechatronic, Bucharest, Romania

**P.S.IV. - 25. SYNTHESIS OF IODINATED GRAPHENE MATERIALS BY A DIRECT REDUCTION METHOD WITH HI IN ABSENCE OF CATALYSTS**

**Bianca Sucea<sup>1</sup>, Elena Marin<sup>1</sup>, Adriana Marinoiu<sup>1</sup>, Claudia Cobzaru<sup>2</sup>, Corina Cematescu<sup>2</sup>, Mircea Răceanu<sup>1</sup>**

<sup>1</sup> RD Institute for Cryogenics and Isotopic Technologies- ICIT, Rm Valcea, Romania

<sup>2</sup> Faculty of Industrial Chemistry, Technical University of Iasi, Romania

**P.S.IV. - 26. OBTINEREA HIDROXIAPATITEI DIN SURSE NATURALE INDIGENE PRIN SINTEZA HIDROTERMALA**

**A.M. Mocioiu, L.M. Popescu, R.M. Piticescu, E. A. Neagu**

*Institutul Național de Cercetare – Dezvoltare pentru Metale Neferoase și Rare – I.M.N.R.*

*B-dul Biruinței nr. 102, Pantelimon, jud. Ilfov*

SECȚIUNEA V / SECTION V  
Protecția mediului și monitorizare/  
Chemistry of the Environment

MIERCURI / WEDNESDAY, 5 octombrie / october 2016  
Discuții postere / Posters session: 17<sup>30</sup> – 19<sup>00</sup>

**P.S.V - 1. RETENTION MODELING FOR SOLID-PHASE EXTRACTION ON MOLECULAR IMPRINTED POLYMERS (SPE-MIPs) FOR NITROFURAN ANTIBIOTICS**

**Edina Rusen,<sup>1</sup> Florentina Rizea,<sup>1</sup> Aurel Diacon,<sup>1</sup> Mihaela Cheregi,<sup>2</sup> Bogdan Bucur,<sup>3</sup> Elena Bacalum,<sup>2</sup> Victor David<sup>2</sup>**

<sup>1</sup>University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania

<sup>2</sup> University of Bucharest, Faculty of Chemistry, Bucharest, ROMANIA

<sup>3</sup>National Institute of Research and Development for Biological Science, Bucharest, Romania

**P.S.V - 2. STUDY ON THE KINETICS AND MECHANISM OF DECABROMODIPHENYLETHER THERMAL DEGRADATION**

**Mihai Dumitraș<sup>1</sup>, Dan Maftei<sup>1</sup>, Dragos L. Isac<sup>1</sup>, Alin C. Dirtu<sup>1</sup>**

<sup>1</sup>Dept. of Chemistry, "Al. I. Cuza" University of Iasi, Romania

**P.S.V - 3. ENZYMATIC ECOSOLVENT SYNTHESIS**

**Elena-Emilia Oprescu<sup>1,2</sup>, Sanda Velea<sup>1</sup>, Ana-Maria Galan<sup>1</sup>, Emil Stepan<sup>1</sup>, Elena Radu<sup>1</sup>, Gabriel Vasilievici<sup>1</sup>, Cristina-Emanuela Enascuta<sup>1</sup>, Adrian Radu<sup>1</sup>**

<sup>1</sup>Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie ICECHIM, Bucuresti, Romania

<sup>2</sup> Petroleum-Gas University of Ploiesti, Bucuresti, Ploiesti, Romania

**P.S.V - 4. SPECTROMETRIC APPROACH TO INVESTIGATE ANALYTICAL AND ENVIRONMENTAL ISSUES OF NITROFURANTOIN**

**Adriana Gheorghe, Sorin Stănișteanu, Mihaela Cheregi and Victor David**

University of Bucharest, Faculty of Chemistry, Department of Analytical Chemistry, Bucharest, Romania



**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.V - 5. ESTABLISHING THE OPTIMUM PARAMETERS FOR EXPLOITATION OF MINERAL WATER SPRINGS**

**Ana Despina Ionescu<sup>1</sup>, Angela Casarica<sup>1</sup>, Sultana Nita<sup>1</sup>, Elena Boca<sup>1</sup>, Emanuel Vamanu<sup>2</sup>, Nicolae Giurgiu<sup>3</sup>**

*<sup>1</sup>National Chemical-Pharmaceutical for Research and Development Institute- ICCF, Bucharest, Romania*

*<sup>2</sup>The University of Agricultural Sciences and Veterinary Medicine- Bucharest, Romania*

*<sup>3</sup>SC MINESA S.A., Cluj – Napoca, Romania*

**P.S.V - 6. CHARACTERIZATION OF BIOMASS, TAR AND ASH OBTAINED AFTER THE GASIFICATION PROCESS**

**Fănica Bacalum<sup>1</sup>, Ilie Iulian Minca<sup>1</sup>, Irina Georgiana Ciobanu<sup>1</sup>, Sanda Maria Doncea<sup>1</sup>, Sarbu Liliana<sup>1</sup>**

*<sup>1</sup>National Research & Development Institute for Chemistry and Petrochemistry ICECHIM, Bucharest, Romania*

**P.S.V - 7. EVALUAREA FERTILITATII SOLURILOR AGRICOLE, REZULTATE SI STATISTICI ALE LABORATORULUI DE ANALIZA A SOLULUI ALCHIMEX**

**Emilian Tudor, Cornel Greuc, Daniel Cristian Untaru**

*S.C. Alchimex S.A. București, România*

**P.S.V - 8. EXPERIMENTE DE IRADIERE CU ULTRASUNETE PE SOLUTII APOASE CU CONTINUT DE 1,1,2 TRICLORETAN**

**Mihaela Iordache<sup>1</sup>, Luisa Roxana Popescu<sup>1</sup>, Ioan Iordache<sup>3</sup>, Luoana Florentina Pascu<sup>2</sup>, Adriana Marinoiu<sup>3</sup>**

*<sup>1</sup>National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest-Subsidiary Ramnicu Valcea, Ramnicu Valcea, Romania*

*<sup>2</sup>National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest, Romania*

*<sup>3</sup>National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Rm. Valcea, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**JOI / THURSDAY, 6 octombrie / october 2016  
Discuții postere / Posters session: 18<sup>00</sup> – 19<sup>30</sup>**

**P.S.V - 9. GEOTHERMAL GAS WATER, RESERVOIR OF HYDROCARBONS**

**Marius Constantinescu, Felicia Bucura**

*INC-DTCI-ICSI Ramnicu Valcea, Romania*

**P.S.V - 10. POLYESTER POLYOLS PREPARED FROM WASTE AND RENEWABLE MATERIALS IN ORGANIC CATALYSIS, FOR POLYURETHANE RIGID FOAMS**

**Monica Duldner<sup>1</sup>, Stela Iancu<sup>1</sup>, Stanca Capitanu<sup>1</sup>, Emeric Bartha<sup>2</sup>, Simona Nica<sup>2</sup>, Sorina Garea<sup>3</sup>, Madalina Pandele<sup>3</sup>, Andrei Sarbu<sup>1</sup>, Steluta Apostol<sup>1</sup>, Teodor Sandu<sup>1</sup>**

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*<sup>3</sup> University "Politehnica" Bucharest, Romania*

**P.S.V - 11. MESOPOROUS MATERIALS FOR PHENOL REMOVAL FROM WASTEWATER**

**Violeta Niculescu<sup>1</sup>, Ramona Ene<sup>2</sup>, Viorica Parvulescu<sup>2</sup>**

*<sup>1</sup> National Institute for Research and Development for Cryogenics and Isotopes Technologies - ICIT Rm. Valcea, Ramnicu Valcea, Romania*

*<sup>2</sup> Institute of Physical Chemistry "I.G. Murgulescu, Bucharest, Romania*

**P.S.V - 12. RESEARCH REGARDING THE ANTIDEHISCENCE POTENTIAL OF COLLAGEN HIDROLISATED UPON THE RAPE SEED CROP**

**Gidea Mihai<sup>1</sup>, Stepan Emil<sup>2</sup>, Enascuta Cristina Emanuela<sup>2</sup>, NiculescuDoina Mihaela<sup>3</sup>, Gaidau Carmen<sup>3</sup>, Epure Doru Gabriel<sup>4</sup>, Marius Becheritu<sup>4</sup>**

*<sup>1</sup> University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania*

*<sup>2</sup> National Research and Development Institute for Chemistry and Petrochemistry ICECHIM Bucharest, Romania*

*<sup>3</sup> National Research and Development Institute for Textiles and Leather Bucharest, Romania*

*<sup>4</sup> SC ProbstdorferSaatzucht Romania SRL Bucharest, Romania*

**P.S.V - 13. ANAEROBIC CO-DIGESTION OF DIFFERENT TYPES OF FOOD WASTE AND SPENT MICROALGAE BIOMASS**

**Elena Radu, Sanda Velea, Ana-Maria Galan, Rodica-Mihaela Frîncu, Catalin Matei, Gabriel Vasilevici, Cristina Enășcuță**

*Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie ICECHIM, București, România*

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**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**P.S.V - 14. COMPUTATIONAL THERMOCHEMISTRY OF BROMINATED FLAME RETARDANTS. CASE STUDY OF DECBROMODIPHENYL ETHER**

**Dan Maței<sup>1</sup>, Mihai Dumitras<sup>1</sup>, Dragos L. Isac<sup>1,2</sup>, Alin C. Dirtu<sup>1</sup>**

*<sup>1</sup>Department of Chemistry, "Alexandru Ioan Cuza" University of Iasi, Iasi, Romania*

*<sup>2</sup>"Petru Poni" Institute of Macromolecular Chemistry Iasi, Iasi, Romania*

**P.S.V - 15. PREPARATION OF ELECTROCHEMICAL IMPRINTED MATERIALS VIA PRECIPITATION POLYMERIZATION FOR THE DETERMINATION OF BISPHENOL A**

**Ana-Mihaela Florea<sup>1</sup>, Andrei Sârbu<sup>1</sup>, Tanța-Verona Iordache<sup>1</sup>, Steluța Apostol<sup>1</sup>, Bianca Georgescu<sup>1</sup>, Iancu Stela<sup>1</sup>, Raluca Ianchiș<sup>1</sup>, Violeta Purcar<sup>1</sup>, Cătălin Spătaru<sup>1</sup>, Monica Duldner<sup>1</sup>, Gheorghe Hubca<sup>2</sup>**

*<sup>1</sup>National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, Bucharest, Romania*

*<sup>2</sup>University Politehnica of Bucharest, Romania*

**P.S.V - 16. REGISTRUL ANALITIC AL PESTICIDELOR**

**Cristian Enache Preoteasa, Valentin Constantin Istodor**

*Laboratorul Național Fitosanitar, Voluntari, România*

**P.S.V - 17. FILMS BASED ON CROSS-LINKED COLLAGEN HYDROLYSATES, WITH ANTI-DEHISCENT EFFECT FOR RAPESEED CULTURE**

**Cristina-Emanuela Enascuta<sup>1</sup>, Emil Stepan<sup>1</sup>, Mihai Gidea<sup>2</sup>, Marius Becheritu<sup>3</sup>, Mihaela-Doina Niculescu<sup>4</sup>**

*<sup>1</sup>National Research and Development Institute for Chemistry and Petrochemistry ICECHIM Bucharest, Romania*

*<sup>2</sup>University of Agronomic Sciences and Veterinary Medicine Bucharest, Romania*

*<sup>3</sup>SC Probstdorfer Saatzucht Romania SRL Bucharest, Romania*

*<sup>4</sup>National Research and Development Institute for Textiles and Leather Bucharest, Romania*

**P.S.V - 18. DECONTAMINATION OF COLORED WASTEWATERS USING MAGNETITE/CARBON NANOCOMPOSITES**

**Simona Gabriela Muntean<sup>1</sup>, Anamaria Todea<sup>1,2</sup>, Adelina Andelescu<sup>1</sup>, Maria Elena Rădulescu-Grad<sup>1</sup>, Robert Ianoș<sup>2</sup>**

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*<sup>2</sup>Politehnica University Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Timișoara, Romania*

**A XXXIV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE  
CĂLIMĂNEȘTI – CĂCIULATA**

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**ABREVIERI / ABBREVIATIONS**

A.S.M.	<i>Academia de Științe a Moldovei</i>
C.C.O.	<i>Centrul de Chimie Organică</i>
ECOIND	<i>Institutul Național de Cercetare – Dezvoltare pentru Ecologie Industrială</i>
ICECHIM	<i>Institutul Național de Cercetare – Dezvoltare pentru Chimie și Petrochimie</i>
I.C.M.	<i>Institutul de Chimie Macromoleculară</i>
I.C.P.A.O.	<i>Institutul de Cercetare Produse Auxiliare Organice</i>
I.N.C.D.	<i>Institutul Național de Cercetare-Dezvoltare</i>
I.N.C.D.F.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor</i>
I.N.C.D.P.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Protecția Muncii</i>
I.N.C.D.T.I.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare</i>
I.N.C.D.T.C.I.	<i>Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice</i>
I.N.C.D.E.M.C.	<i>Institutul Național de Cercetare și Dezvoltare pentru Electrochimie și Materie Condensată</i>
I.M.N.R.	<i>Institutul pentru Metale Neferoase și Rare</i>
U.M.F.	<i>Universitatea de Medicină și Farmacie</i>
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