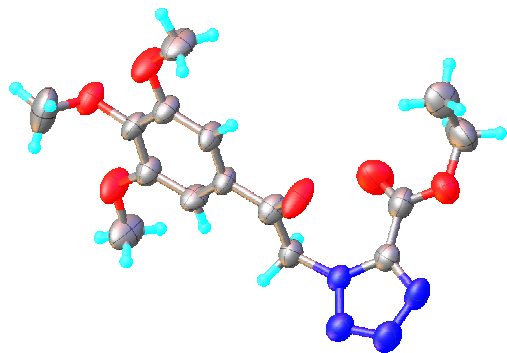




“Alexandru Ioan Cuza” University Days

Faculty of Chemistry Conference

Program



Iasi,
27 – 28 October 2016

Faculty of Chemistry Conference

Scientific Committee

President: Prof. PhD. Ionel Mangalagiu

Acad. Prof. Marius Andruh

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Prof. PhD. Doina Humelnicu

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PhD. Stud. Constantin Virlan

Scientific Program

Day 1

Thursday 27 October, Faculty of Chemistry, Lecture Hall P3

14⁰⁰-15⁰⁰ **Registration of the participants**

15⁰⁰-15¹⁰ **Opening ceremony**

15¹⁰-15²⁰ **Celebration moment**

15²⁰-15³⁰ **Nobel Prize for Chemistry 2016**
tribute by PhD. Stud. Stefan Bucur

Session 1

Plenary lectures

Chairpersons: Assoc. Prof. Ph.D. Ramona Danac
Assoc. Prof. Ph.D. Ionel Humelnicu

CO1 *Vertical transport of continental air masses and their influence on the distribution of size resolved aerosols from Iasi, Romania*

15³⁰-15⁵⁰
A. G. Galon (Negru)¹, R. I. Olariu^{1,2}, C. Arsene^{1,2}

CO2 *Amphiphilic polysaccharide-based diblock copolymers prepared by click chemistry*

15⁵⁰-16¹⁰
M.-C. Stanciu³, G. Mocanu³, M. Nichifor³

CO3 *An efficient transformation of azomethine ylides into Pechmann Dyes*

16¹⁰-16³⁰
D. Belei¹, S. Shova³, L. M. Birsa¹, E. Bicu¹

SC1 *Impact of chain conformation on rheological behavior and biocompatibility of some semi-aliphatic polyimides*

16³⁰-16⁴⁰
A. I. Barzic³, L. I. Buruiana³, O. V. Badulescu⁴, C. Hulubei³

SC2 *Contributions regarding the synthesis and characterization of compounds from the series ZnAl_{2-x}Cr_xO₄*

16⁴⁰-16⁵⁰
E.- D. Chitoiu-Arsene¹, M. Dumitras¹, N. Melniciuc-Puica⁵, V. Nica⁶, L. Leontie⁶, A.-R. Iordan¹, M. N. Palamaru¹

SC3 *Preparation of hybrid composites containing zinc oxide and silver nanoparticles for catalysis applications*

16⁵⁰-17⁰⁰
V.-E. Podasca³, T. Buruiana³, E. C. Buruiana³



Roundtable: Past, Present And Future Of Chemistry At “Alexandru Ioan Cuza” University Faculty of Chemistry (Location: S.21)

17⁰⁰-19⁰⁰

Scientific Program

Day 2

Friday, 28 October, Faculty of Chemistry, Lecture Hall P3

08³⁰-09⁰⁰ **Registration of the participants**
Display of posters (P1 - P45) - The Hall of the Echoing Footsteps

Session 1

Plenary lectures

Chairpersons: Prof. Ph.D. Doina Humelnicu

Prof. Ph.D. Habil. Romeo-Iulian Olariu

CP1 *Metal ion sorption on cross-linked chelating architectures*

09⁰⁰-09⁴⁵
M. V. Dinu³, D. F. Apopei Loghin³, E. S. Dragan³

CO4 *The effects of Origanum majorana L. essential oil on an amyloid beta (1-42) rat model of Alzheimer's disease: cognitive and molecular approaches*

09⁴⁵-10⁰⁵
P. A. Postu⁷, L. Ion¹, S. Mikkat⁸, M. O. Glocker⁸, B. A. Petre¹, L. Hritcu⁷

CO5 *Authentication of old heritage violins*

10⁰⁵-10²⁵
I. Sandu⁹, D. Potolinca⁹, A. V. Sandu¹⁰, M. Paduraru⁹, R. A. Cristache⁹, O. P. Tanasa⁹, V. Vasilache⁹

SC4 *Tailoring nanoferrites for hyperthermia treatment: size and composition*

10²⁵-10³⁵
C. Virilan¹, O. F. Caltun⁶, R. Hempelmann¹¹, A. Pui¹

SC5 *Circulation of chemical elements through the human body*

10³⁵-10⁴⁵
Z. Chiran¹² (book presentation)

POSTER SESSION

10⁴⁵-11¹⁵

COFFEE BREAK

Session 2

Plenary lectures

Chairpersons: Prof. Ph.D. Gabi Drochioiu

Assoc. Prof. Ph.D. Mircea Apostu

CO6 *Alginate/clinoptilolite composite microspheres with enhanced sorption properties for Methylene Blue*

11¹⁵-11³⁵
M. M. Lazar³, M. V. Dinu³, E. S. Dragan³

CO7 *Extraction, isolation and characterization of inulin-type fructans from Cichorium intybus and Taraxacum officinale*

11³⁵-11⁵⁵
S. Patriche¹³, R. Costea¹⁴, I. O. Ghinea¹³, R. M. Dinica¹³

CO8 *Mathematical modeling of heavy metal ions adsorption onto functionalized polymer beads. Assessment of isotherm model validity by statistical analysis*

11⁵⁵-12¹⁵
G. Moroi³

CO9 *Synthesis, structure and properties of Cu(II) coordination compounds with water soluble thiosemicarbazone*

12¹⁵-12³⁵
O. Palamarciuc¹⁵, A. Sirbu¹⁵, S. Shova³

SC6 *Selectivity of transport capacity of the compounds based on 15-crown-5 and 18-crown-6 ethers*

12³⁵-12⁴⁵
R. Zonda³, A. Coroaba³, M. Silion³, S. Ibanescu³, M. Pinteala³, M. Barboiu^{3,16}

SC7 *New 4,4'-bipyridine derivatives: synthesis and antimycobacterial activity*

12⁴⁵-12⁵⁵
A. Olaru¹, C. I. Ciobanu¹, I. Mangalagiu¹, R. Danac¹

SC8 *Preparation and fluorescence study of a polyacrylate with alanine, histidine and pyrene moieties*

12⁵⁵-13⁰⁵
M. Murariu³, E. C. Buruiana³

SC9 *Contributions to the development of density functional theory. Concepts, implementation and use*
 13⁰⁵-13¹⁵ Ghe. Paveliuc¹, D. Maftai¹, I. Humelnicu¹

13¹⁵-14³⁰

LUNCH

Session 3

Plenary lectures

Chairpersons: Prof. Ph.D. Habil. Cecilia Arsene

Prof. Ph.D. Aurel Pui

CP2 *Self assembled architectures, innovative host-guest systems and COFs based on tetrahedric tectons*
 14³⁰-15¹⁵ I. Grosu¹⁷

CP3 *Functional pi-Conjugated Systems: from molecular design to applications*
 15¹⁵-16⁰⁰ J. Roncali¹⁸

CO10 *Proteomic approach to characterize prolamins from corn*
 16⁰⁰-16²⁰ S. Bancila¹, L. Ion¹, R. Stefanescu¹, C. Andries¹, B. A. Petre¹, G. Drochioiu¹

SC10 *Synthesis, photophysical and electrochemical properties of novel 6,12-disubstituted indolo[3,2-b]carbazole-based polymers*
 16²⁰-16³⁰ O. I. Negru³, A.-M. Solonaru³, M. Grigoras³

POSTER SESSION

16³⁰-16⁵⁰

COFFEE BREAK

16⁵⁰-17⁰⁰

**Awards For The Best Participants
 Closing the Conference**

18⁰⁰

Cocktail (Vanatorul Restaurant)

POSTERS

P1 *Dynamics of tebuconazole and other combination fungicide formulations in Jonathan and Golden Delicious apple leaves*
A. C. Coman (Babusanu)^{1,4}, G. Mardare (Balusescu)¹, G. I. Ababei¹, E. Butnaru⁴, R. I. Olariu^{1,2}, C. Arsene^{1,2}

P2 *Magneto-resistive effect and magnetic properties of La_{0.54}Nd_{0.11}Sr_{0.35}Mn_{1-x}Co_xO₃ manganites*
N. Cornei¹, M. -L. Craus^{19,20}, C. Mita¹, V. Dobre²⁰

P3 *Synthesis of porous crosslinked particles by separation of polymeric multiphase systems*
 S. Vasiliu³, S. Racovita³, I. Plesca³, C. D. Vlad³

P4 *Gas phase infrared absorption cross sections for a series of aromatic compounds in the ESC-Q-UAIC chamber*
C. Roman¹, I. Bejan², C. Arsene^{1,2}, R. I. Olariu^{1,2}

P5 *Lanthanide isopolyoxometalates: synthesis, structure and photocatalytic activity*
D. Humelnicu¹, M. L. Craus¹⁹, I. Humelnicu¹, M. Ignat¹

P6 *Detection of protease inhibitors from an algae extract using an artificial proteome*
A.-V. Lupaescu^{1,21}, M. Prothiwa²¹, T. Böttcher²¹, B. A. Petre¹, G. Drochioiu¹

P7 *Synthesis and analysis by NMR of HHQ and PQS, two Pseudomonas aeruginosa quorum-sensing molecule*
M. Jureschi^{1,21}, D. Szamosvári²¹, T. Böttcher²¹, C.-I. Ciobanu¹, B. A. Petre¹, G. Drochioiu¹

P8 *Ecological footprint of recycled paper*
 C. Ghinea²²

P9 *Biosynthesis of silver nanoparticles from Paeonia officinalis aqueous extract*
A. Sorescu^{23,24}, A. Nuta^{24,25}, I. R. Suica – Bunghez²⁴, R. M. Ion^{23,24}, C. L. Nistor²⁴

P10 *DNA assisted functionalization of gold nanoparticles with cyclodextrin moiety*
A. Dascalu³, E.-L. Ursu³, F. Doroftei³, N. Marangoci³, A. Rotaru³

P11 *Chain flexibility influence on optical and dielectric properties of some polyimides*
R. M. Albu³, S. L. Nica³, A. I. Barzic³

- P12** *Rare earth elements (REEs) microwave assisted extraction for further analysis by inductively coupled plasma mass spectrometry (ICP-MS)*
L.-V. Soroaga^{1,2}, C. Arsene^{1,2}, C. Borcia⁶, R.-I. Olariu^{1,2}
- P13** *Pyridyl-indolizine derivatives as DNA binders and pH-sensible fluorescent dyes*
L. Popovici¹, N.-L. Marangoci³, R. Danac¹, C. Cojocaru³, I. Mangalagiu¹, A. Rotaru³
- P14** *Binding of redox-active metals to peptides*
C.-I. Ciobanu¹, R. Stefanescu¹, M. Jureschi¹, V. Antoci¹, M. Niculaua²⁶, V. Vasilache^{2,22}, G. Drochioiu¹
- P15** *Phytochemical screening of Hexalobusmonopetalus (A. Rich.) Engl. & Diels, plant used in the treatment of gout in Chad*
S. Mbaihougadobe^{27,13}, B. Furdui¹³, A. V. Dediu¹³, I. O. Ghinea¹³, D. Borda²⁸, Y. Mahmoud²⁷, R. M. Dinica¹³
- P16** *Phytoremediation study of petroleum polluted soils using Pleurotus Pulmonarius mushrooms*
B. Furdui¹³, M. Timofti¹³, I. Patulea¹³
- P17** *New bis-pyridine-imidazolium/benzimidazolium salts with acetophenone skeleton: synthesis and NMR characterization*
B. Bratanovici¹, D. Amariuca-Mantu¹, V. Antoci¹, C.-I. Ciobanu¹, C. Moldoveanu¹, I. I. Mangalagiu¹
- P18** *Synthesis and NMR characterization of novel anthracene-imidazolium/benzimidazolium salts*
M. M. Grigore¹, V. Antoci¹, D. Amariuca-Mantu¹, C.-I. Ciobanu¹, Ghe. Zbancioc¹, I. I. Mangalagiu¹
- P19** *Interesting behaviour of 2-amino-2-oxoethyl phenanthroline ylides in 3+2 cycloaddition to activated alkynes and alkenes*
M. C. Al-Matarneh¹, R. Danac¹, M. O. Apostu¹, I. I. Mangalagiu¹
- P20** *Hybrid organic/inorganic nanomaterials containing silver, zinc, gelatin and diazine*
V. Vasilache^{2,22}, D. Mantu¹, V. Antoci¹, I. I. Mangalagiu¹
- P21** *New composite materials based on hydroxyapatite (HAP) and novel functionalized poly(trimethylene carbonate) (PTMC) intended for biomedical applications*
M. Basko²⁹, M. Pelin³, M. Socka²⁹, A. Michalski²⁹, M. Zanoaga³, R. Darie-Nita³, F. Tanasa³
- P22** *Polysaccharides as renewable polymer matrices for obtainment of multi-component polymer systems*
C.-A. Teaca³, R. Bodirlau³

- P23** *Study of the optical transparency of novel thermoplastic ternary copolyamide-clay hybrid materials*
M. Zanoaga³, A. Airinei³, N. Fifere³, F. Tanasa³
- P24** *Antibacterial activity of several 1,3-dithiolium flavonoids*
L. G. Bahrin¹, L. M. Birsa¹
- P25** *Physico-chemical methods research of the old documents recovered in border crossing*
D. Potolinca¹⁰, I. C. Negru¹⁰, M. Paduraru¹⁰, O. P. Tanasa¹⁰, M. Haulica¹⁰, V. Vasilache⁹, I. Sandu⁹
- P26** *A new method for obtaining perovskites*
D. Dupalau³⁰, D. Sutiman³⁰, G. Apostolescu³⁰
- P27** *Study on caloric capacity of fermented and unfermented sewage sludge*
C. Iticescu³¹, L. P. Georgescu³¹, G. Gurau³², D. Dima³¹, M. Murarescu³¹, A. Circiumaru³³
- P28** *Synthesis, structure and evaluation of potential anticancer activity of new tetrazoles derivatives*
M. C. Sardaru¹, R. Danac¹, C. I. Ciobanu¹, M. O. Apostu¹
- P29** *New ionophores for anion-selective electrodes*
M. Diru¹⁵
- P30** *Synthesis, structure and biological proprieties of some Cu(II) complexes with imidazole tiosemicarbazone derivatives*
E. Stratulat¹⁵, S. Shova³, A. Pui¹, I. Corja¹⁵, O. Palamarcu¹⁵
- P31** *Investigation of a spin crossover mechanism in an iron(II) compound*
T. Palamarcu¹⁵, H. J. Shepherd³⁴, P. Rosa³⁵, P. Guionneau³⁵, G. Molnar³⁴, J.-F. Letard³⁵, A. Bousseksou³⁴
- P32** *Influence of Cu concentration on structure and magneto-transport properties of La_{0.54}Nd_{0.11}Ca_{0.35}MnO₃ perovskite*
C. Mita¹, M. L. Craus^{19,20}, N. Cornei¹, V. Dobrea²⁰
- P33** *Identification and differentiation of metal ions sorption mechanism onto an ion exchanger functionalized with triethylenetetramine*
R. L. Buhaceanu¹, S. M. Cucu-Man¹, A. Pui¹, G. Lisa³⁰, C. Mita¹, I. Bunia³
- P34** *Graphene-metal oxide based composite material for electromagnetic shielding applications*
M. P. Suche³⁶, I. V. Tudose³⁶, S. Bucur¹, F. Iacomì⁶, E. Koudoumas³⁶

- P35** *Ultrasound-assisted synthesis of the mesoporous titania photocatalyst*
M. Ignat¹, D. Lutic¹, I. Asaftei¹
- P36** *Synthesis of new pyrrolo[2,1,5-cd]indolizine derivatives*
N. Nistor¹, E. Bicu¹, P. G. Jones³⁷, L. M. Birsa¹, D. Belei¹
- P37** *1,3-Dipolar cycloadditions to 4-metoxi-pyridinium ylides*
A. Chiriac¹, E. Bicu¹, S. Shova³, D. Belei¹
- P38** *A Dragendorff's multiplate assay for alkaloid detection*
V. R. Gradinaru¹, L. Vizitiu¹, G. Drochioiu¹
- P39** *Study on the thermal degradation of brominated flame retardants: computational thermochemistry, kinetics and degradation mechanism*
D. L. Isac^{1,3}, M. Dumitras¹, D. Maftei¹, A. Airinei³, A. C. Dirtu¹
- P40** *Functionalization of a natural material towards applications in water depollution*
S. Cojocaru¹⁰, S. Cucu-Man¹, N. Melniciuc-Puica³⁸, V. Hulea³⁹, M. N. Palamaru¹, A. R. Iordan¹
- P41** *Synthesis of new tetranorlabdane compounds with oxadiazole units*
L. Lungu⁴⁰, C. Smigon⁴⁰, A. Aricu⁴⁰, A. Ciocarlan⁴⁰, A. Barba⁴⁰, C. Moldoveanu¹
- P42** *Synthesis of some benzofuran derivatives with fluorescent properties*
G. Zbancioc¹, D. Maftei¹, C. Moldoveanu¹, V. Antoci¹, D. Mantu¹, I. Mangalagiu¹
- P43** *Supramolecular luminescent chitosan gels*
A. Bejan³, M. Pinteala³, M. Barboiu^{3,16}, L. Marin³
- P44** *Suitable methylated β -cyclodextrins as drug solubilizers for bis-pyridazine derivatives*
S. Bucur¹, M. Niculaua²⁶, D. Mantu¹, N.-C. Lungu¹, I. Mangalagiu¹
- P45** *Comparative spectroscopic and thermal study on transition metal ions/polyurethane metallopolymers*
 G. Moroi³

Legend

1. “Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Romania
2. ”Alexandru Ioan Cuza” University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region, Romania
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4. ”Gr. T. Popa” University of Medicine and Pharmacy, Iasi, Romania
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20. National Institute of Research and Development for Technical Physics, Iasi, Romania
21. University of Konstanz, Department of Chemistry, Germany
22. ”Stefan cel Mare” University of Suceava, Faculty of Food Engineering, Romania
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