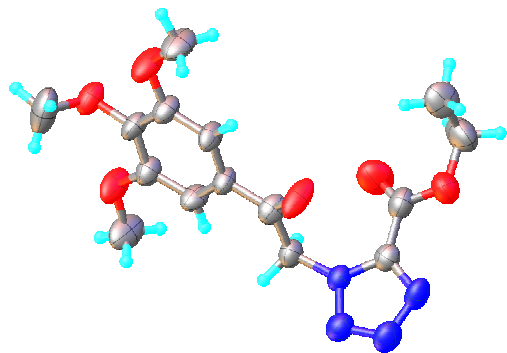




"Alexandru Ioan Cuza" University Days

Faculty of Chemistry Conference

Program



Iasi,
27 – 28 October 2016

Faculty of Chemistry Conference

Scientific Committee

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Acad. Prof. Marius Andruh

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Acad. Prof. Cristian Silvestru

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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 $ZnAl_{2-x}Cr_xO_4$**

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. Virvan¹, 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 *Magnetoresistive 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, I. M. Pelin³, M. Socka²⁹, M. Zanoaga³, A. Michalski²⁹, R. Darie-Nita³, T. Biela²⁹, 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

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2. ”Alexandru Ioan Cuza” University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region, 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
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