

IasiChem2017

Chemistry Conference

Scientific Committee

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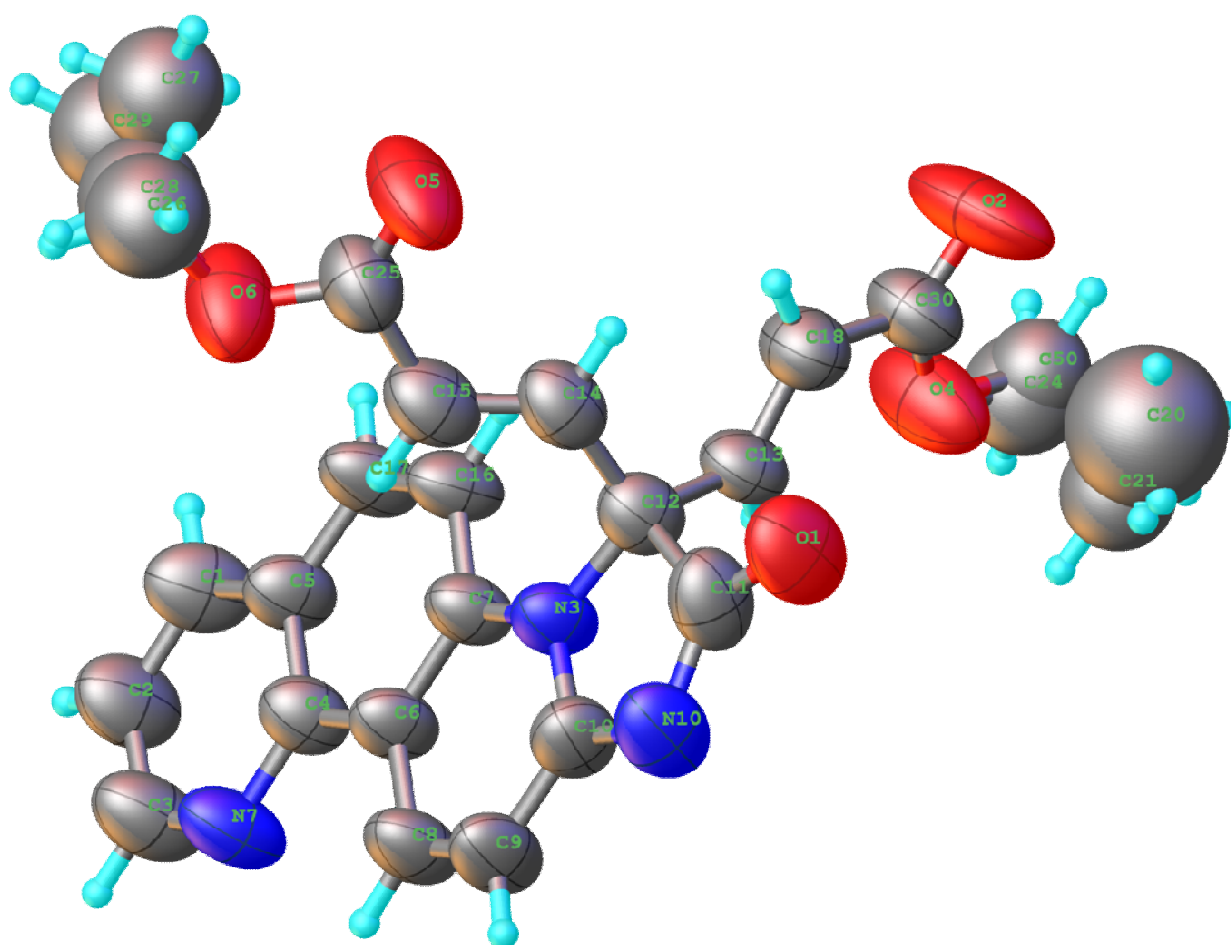
Lecturer Maria Ignat

Lecturer Dorina Amariuca-Mantu

CSIII Catalina-Ionica Ciobanu

Admin. Eng. Vasile Vatra

PhD. Stud. Claudiu Roman



Scientific Program

Day 1

Thursday, October 26, Faculty of Chemistry, Lecture Hall P3

13⁰⁰-14¹⁵ **Registration of the participants**

14¹⁵-14²⁵ *Opening Ceremony*

Dean Prof. Aurel Pui

14²⁵-14⁴⁰ ***Our Professors - Celebration Moment***

14⁴⁰-14⁵⁰ ***Nobel Prize for Chemistry 2017***

tribute by Assoc. Prof. Vasile-Robert Gradinaru

Session 1

Plenary lectures

Chairpersons: Assoc. Prof. Marilena Ferbinteanu

Prof. habil. Romeo-Iulian Olariu

CP1 ***Polymetallic oxide-based composite materials
obtained through sol-gel method***

14⁵⁰-15³⁰

A.R. Jordan¹

CO1 ***Efficient removal of methylene blue from aqueous
solution using ionic biocomposites: Sorption and
reusability studies***

15³⁰-15⁵⁰

M.M. Lazar², M.V. Dinu², E.S. Dragan²

CO2 ***NMR Spectroscopy in chemistry – from isolated
structures to complex mixtures***

15⁵⁰-16¹⁰

G.L. Ailiesei², A. Nicolescu²

CO3 *Supramolecular assemblies in water based on ionic transition metal coordination complexes*

16¹⁰-16³⁰

E.I. Szerb³¹, C. Cretu³¹, A.A. Andelescu³¹, L. Cseh³¹,
O. Costisor³¹

SC1 *Proteomic approach on LSDs enzymatic activity determination: single and multiplex assays*

16³⁰-16⁴⁰

C. Andries^{1,3}, L. Ion^{1,3}, C. Dimitriu⁴, M. Przybylski³, S.
Maeser³, B.A. Petre¹

16⁴⁰-16⁵⁵

SPONSORS' TIME

C. Andries³³



17⁰⁰-19⁰⁰ **Roundtable: Role and Importance of Chemistry**

Scientific Program

Day 2

Friday, October 27, Faculty of Chemistry, Lecture Hall P3

08³⁰-09⁰⁰ **Registration of the participants**
Display of posters – *The Hall of the Echoing Footsteps*

Session 1

Plenary lectures

Chairpersons: Assoc. Prof. Nicoleta Cornei
Assoc. Prof. Ionel Humelnicu

CI1 *Spin coupling and magnetic anisotropy in Mn(III) complexes: Weighing the fine balance of ligand field, spin orbit and lattice effects*
09⁰⁰-09⁴⁰
M. Ferbinteanu⁵

CO4 *Chitosan/siloxane hybrid microspheres: preparation, characterization and ability to be used as drug delivery systems*
09⁴⁰-10⁰⁰
I.E. Bordianu-Antochi², M. Olaru², C. Cotofana²

CO5 *Mechanical and moisture sorption-desorption characterization of poly(vinyl alcohol)-polysulfone/multiwall carbon nanotube composites*
10⁰⁰-10²⁰
S.L. Nica², A. Bargan², C. Gaina²

SC2 *Theoretical study of the effects of heteroatom substitution on electronic spectra of selected heterocyclic compounds*
10²⁰-10³⁰
T. Chelariu¹, D. Maftai¹, I. Humelnicu¹, I. Mangalagiu¹

SC3 *Hydrogels based on chitosan and 5-nitrosalicylaldehyde with potential antitumor activity for local cancer therapy*

10³⁰-10⁴⁰

A.M. Olaru^{1,2}, L. Marin², S. Morariu², G. Pricope², M. Pinteala², L. Tartau-Mititelu⁶

SC4 *Electrochemical performances of polyaniline-based composites obtained by in-situ chemical polymerization*

10⁴⁰-10⁵⁰

A.M. Solonaru², M. Grigoras²

SC5 *Refraction and dielectric features of some semi-alicyclic polyimides designed for liquid crystal displays*

10⁵⁰-11⁰⁰

R.M. Albu², A.I. Barzic², C. Hulubei²

POSTER SESSION

11⁰⁰-11³⁰

COFFEE BREAK

Session 2

Plenary lectures

Chairpersons: Prof. Doina Humelnicu
Prof. Gabi Drochioiu

CI2 *Back to the basis! A critical revision of Gaussian basis sets*

11³⁰-12¹⁰

F. Cimpoesu⁷

CO6 *Aromatic hydrocarbon contribution to the secondary organic aerosol formation in urban atmosphere*

12¹⁰-12³⁰

I. Bejan⁸

CO7 *Tuning the photocatalytic performance of TiO₂ nanoparticles embed in polymer matrices by their combination with others inorganic components*

12³⁰-12⁵⁰

A.L. Chibac², V. Melinte², T. Buruiana²

SC6 *Impact of solvent type on rheological behavior of hydroxypropylmethyl cellulose solutions*
12⁵⁰-13⁰⁰
A.I. Barzic², R.M. Albu², L.I. Buruiana²

SC7 *Synthesis and characterization of spinel type compounds ACr_2O_4 (A= Ni, Zn, Co and Cu)*
13⁰⁰-13¹⁰
E.D. Chitoiu-Arsene¹, A.R. Iordan¹, N. Melniciuc-Puica⁹, G. Bulai¹⁰, L. Leontie¹⁰, A. Carlescu⁸, M.N. Palamaru¹

SC8 *Synthesis of zinc oxide (ZnO) particles for glucose sensing applications*
13¹⁰-13²⁰
V.E. Podasca², E.C. Buruiana²

SC9 *Multilayer thin films consisting of ploy(N,N-dimethylamino)ethyl methacrylate and sodium alginate with tunable affinity for biomacromolecules*
13²⁰-13³⁰
C.A. Gheorghita², F. Bucatariu², E.S. Dragan²

13³⁰-14³⁰

LUNCH

14³⁰-15⁰⁰

POSTER SESSION

Session 3

Plenary lectures

Chairpersons: Assoc. Prof. Ramona Danac

Assoc. Prof. Mircea-Odin Apostu

CP2 *Self-assembled nanostructures based on amphiphilic block copolymers*
15⁰⁰-15⁴⁰
I.A. Dinu²

CO8 *Rational design of coordination compounds based on thiosemicarbazide ligands – synthesis, structure and application*
15⁴⁰-16⁰⁰
O. Palamarciuc¹¹

CO9 *Hydrodynamic properties of xanthan aqueous solution*

16⁰⁰-16²⁰

C.E. Brunchi^{2,12}

SC10 *Catalytic and fluorescence properties of new double hydrophilic imidazole-based copolymers*

16²⁰-16³⁰

L. Stroea², E.C. Buruiana²

SC11 *Electrochemical characterization of star poly(N-vinylcarbazole) obtained by Reversible Addition-Fragmentation Chain Transfer Polymerization (RAFT)*

16³⁰-16⁴⁰

O.I. Negru², M. Grigoras^{2,12}

SC12 *"Grey" water: characteristics, treatment methods and recycling/reuse possibilities*

16⁴⁰-16⁵⁰

C. Zaharia¹³

SC13 *Professor Petru Poni's contributions to the establishment of major educational and research institutions: the United Institutes and the Institute of Chemistry*

16⁵⁰-17⁰⁰

O. Florescu¹⁴, I. Sandu¹⁵, V. Vasilache¹⁵

POSTER SESSION

17⁰⁰-17³⁰

COFFEE BREAK

17³⁰-17⁴⁵

AWARDS FOR THE BEST PARTICIPANTS CLOSING THE CONFERENCE

18³⁰

Cocktail (Vanatorul Restaurant)

POSTERS

- P1** *Synthesis and characterization of a novel composite based on poly(2,2-dimethyltrimethylene carbonate) with carboxylic end-groups and hydroxyapatite*
I.M. Pelin², M. Socka¹⁶, A. Michalski¹⁶, R.N. Darie-Nita², M. Basko¹⁶, F. Tanasa³, M. Zanoaga³, T. Biela¹⁶
- P2** *Atmospheric behavior of water soluble organic anions in fine and coarse particulate matter from Iasi, Romania*
A.G. Galon (Negru)¹, R.I. Olariu^{1,8}, C. Arsene^{1,8}
- P3** *New quaternary curdlan derivatives – interaction with proteins*
D.M. Suflet², I. Popescu², I.M. Pelin²
- P4** *Determination of chemical and nutritional characteristics of edible flowers*
A.E. Ungureanu¹⁷, A.C. Donise¹⁷, I.N. Georgescu¹⁷, M.E. Craciun¹⁷
- P5** *Efficient adsorption of Cr(VI) ions from synthetic aqueous solution using novel composites with strong base anion exchangers embedded into chitosan/poly(vinyl amine) cryogels*
D. Humelnicu¹, E.S. Dragan³, M.V. Dinu³
- P6** *Rheological investigations of polysilane solutions*
M. Soroceanu², A.I. Barzic², L. Sacarescu², V. Harabagiu²
- P7** *Pedologic, atmospheric or anthropogenic contributions as driving forces for aquaculture water quality. A case study for an artificial lake from the north-eastern Romania*
C. Amarandei¹, A.G. Galon (Negru)¹, S.M. Cucu-Man¹, R.I. Olariu^{1,8}, C. Arsene^{1,8}
- P8** *FT-IR gas-phase products study of OH radicals initiated photooxidation of phenol*
C. Roman¹, I.G. Bejan⁸, C. Arsene^{1,8}, R.I. Olariu^{1,8}
- P9** *Non-conventional heavy metals remediation methods of Tarnita site*
M.C. Closca¹, M. Zaharia^{1,18}, R. Gradinaru¹, G. Drochioiu¹
- P10** *Experimental data of functionalized nanocrystalline ferrites MFe_2O_4 (M= Co, Mg, Mn, Ni, Zn) adsorption capability for Congo red dye*
T. Roman^{1,19}, R.L. Asavei¹⁹, A. Pui¹, S. Stanciu¹⁹

- P11** *Spin glass state and magneto resistance investigation of Cu substituted $La_{0.54}Nd_{0.11}Ca_{0.35}MnO_3$ manganites*
C. Mita¹, M.L. Craus^{20,21}, N. Cornei¹, V. Dobra²¹
- P12** *Structural, transport and magnetic properties of $La_{0.54}Nd_{0.11}Sr_{0.35}Mn_{1-x}Sc_xO_3$ manganites*
N. Cornei¹, M.L. Craus^{20,21}, C. Mita¹, V. Dobra²¹
- P13** *Synthesis of new imidazolium/benzimidazolium salts: conventional versus nonconventional methods*
M.M. Grigore¹, D. Cucu¹, D. Amariuca-Mantu¹, V. Vasilache²³, I. Mangalagiu¹
- P14** *A new study on the recovery of precious metals from electronic waste*
R.E. Tataru-Farmus¹³, C. Cernatescu¹³, G.A. Apostolescu¹³, C. Cobzaru¹³, N. Apostolescu¹³, M.A. Vizitiu¹³
- P15** *Computational analysis on azopolymers capable to generate photo-sensitive micelles*
E.L. Epure¹³, N. Hurduc¹³
- P16** *Anion metathesis used to obtain new ionic liquids with imidazole skeleton*
D. Bejan², G. Zbancioc¹, D. Amariuca-Mantu¹, M. Culicã¹, I. Mangalagiu¹, C. Moldoveanu¹
- P17** *Dynamic azo-polymeric surfaces for cell culture application*
C.M. Herghiligiu¹³, I. Carlescu¹³, D. Scutaru¹³, N. Hurduc¹³
- P18** *The possibility of controlled optical nanomanipulation of biomolecules*
C.M. Herghiligiu¹³, N. Hurduc¹³
- P19** *Synthesis and anticancer activity of some new monoindolizine mono-salt based on 4,4'-bipyridine skeleton*
A.M. Olaru¹, I. Mangalagiu¹, R. Danac¹
- P20** *Novel pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles*
M.C. Sardaru¹, G. Pricope², C. Cojocaru¹, R. Danac¹, I. Mangalagiu¹, A. Rotaru¹
- P21** *Synthesis and anticancer evaluation of new pyrrolo-heterocyclic compounds*
L. Popovici¹, R. Danac¹, I. Mangalagiu¹
- P22** *Cellulose derivatization using green routes*
G. Biliuta², S. Coseri²

- P23** *Synthesis and mesomorphic properties of 1,3,5-trisubstituted benzene derivatives containing azo-aromatic units as the peripheral arms*
I. Carlescu¹³, A. Simion¹³, G. Lisa¹³, C. Herghiligiu¹³, N. Hurduc¹³, D. Scutaru¹³
- P24** *Synthesis of novel luminescent and paramagnetic 2,6-bis(5-aryl-1,3,4-oxadiazol-2-yl)phenols*
A.G. Coman²⁴, C.C. Paraschivescu²⁴, A. Paun²⁴, M. Matache²⁴, P. Ionita²⁴
- P25** *New approach on the formation of HONO from the ortho-nitrotoluene ground (S_0) and lowest triplet (T_1) states. Insight from theory*
D. Maftai¹, J. Kleffmann²⁵, P. Wiesen²⁵, R.I. Olariu^{1,8}, I. Bejan⁸
- P26** *Affinity studies of antigen-antibody binding*
A.V. Lupaescu¹, M. Jureschi¹, L. Ion¹, C. Tiron²⁶, G. Drochioiu¹, B.A. Petre^{1,26}
- P27** *Microcrystalline cellulose as adsorbent in removal of dyes from textile wastewaters*
I. Nica¹³, G. Biliuta², S. Coseri², C. Zaharia¹³, D. Suteu¹³
- P28** *Synthesis and characterization of new heterocyclic polydentate ligands*
D. Bejan², L.G. Bahrin², R. Ardeleanu², M. Sardaru^{1,2}, L. Clima², A. Nicolescu², S. Shova², N. Marangoci², V. Lozan^{2,27}
- P29** *QuEChERS and ultrasound-assisted extraction as preparative tools for various secondary metabolites analysis by GC-MS technique*
G. Mardare (Balusescu)¹, R.I. Olariu^{1,8}, C. Arsene^{1,8}
- P30** *Azopolysiloxane conformational study through molecular modeling*
S. Ciobotarescu^{13,28}, E.L. Epure¹³, N. Hurduc¹³
- P31** *Biologic properties of 5-sulfonate-salicylaldehyde thiosemicarbazone derivatives in copper(II) compounds*
A. Sirbu¹¹, O. Palamarciuc¹¹
- P32** *Modelling of photocatalytic degradation processes of organic compounds in presence of TiO_2*
A.M. Sescu¹³, L. Favier³⁴, M. Harja¹³, G. Ciobanu¹³
- P33** *Calculating electronic absorption spectra in solution. Which solvent model should we choose?*
A.I. Gavril¹, D. Maftai¹

- P34** *Toward a reliable comparison of calculated absorption and fluorescence spectra with experimental counterparts: improving the virtual spectrometer*
R.C. Cirdei¹, D. Maftai¹
- P35** *Alkane content in the cuticle of tall fescue (*Festuca arundinacea*) plantlets exposed to metal ions*
R. Necula^{1,29}, E. Gille²⁹, A.C. Dirtu¹, V.R. Gradinaru¹, B.A. Petre¹, G. Drochioiu¹
- P36** *Determination of acidity, moisture and NaCl content in bread*
A. Sandu¹, M. Goanta¹
- P37** *Study of siloxanic chiff bases as ionofores for cation selective electrodes*
M. Diru¹¹, O. Palamarciuc¹¹
- P38** *Intelligent molecular materials*
T. Palamarciuc¹¹, E. Popovici^{11,27}, O. Palamarciuc^{11,27}
- P39** *The preparation and characterization of some copper(II) complexes of 2-methyl-imidazole-4-carbaldehyde thiosemicarbazone derivatives*
E. Stratulat¹¹, S. Shova¹¹, A. Pui¹, V. Prisacari³⁰, I. Corja¹¹, A. Dizdari³⁰, O. Palamarciuc¹¹
- P40** *Kinetic analysis of the thermal degradation of decabromodiphenyleter*
V. Esanu²², M. Dumitras¹
- P41** *Reducing the energy consumption for anodizing process of aluminium alloys*
L. Lazar¹³, E. Droniuc (Hultuana)¹³, M. Harja¹³
- P42** *Copper recovery from galvanic effluents*
L. Lazar¹³, M.A. Mocanu¹³, I. Mamaliga¹³
- P43** *Measurements of Natural Radioactivity Level in Iași City*
S.F. Dediu¹³, M. Goanta¹
- P44** *Applications of polymeric adsorbents for water pollution control*
G.N. Moroi²
- P45** *Modifications of metallopolymer films in high-frequency cold plasma*
G.N. Moroi², G.E. Ioanid²
- P46** *New polybenzoxazines resins*
O. Ursache², C. Gaina², V. Gaina², M. Iurzhenko³²

Legend

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