

ACADEMY OF SCIENCES OF MOLDOVA
INSTITUTE OF CHEMISTRY
STATE UNIVERSITY OF MOLDOVA
INSTITUTE OF APPLIED PHYSICS
INSTITUTE OF ELECTRONIC ENGINEERING AND NANOTECHNOLOGIES
CHEMICAL SOCIETY OF MOLDOVA

The XVIII-th International Conference

**"Physical Methods in Coordination and
Supramolecular Chemistry"**

(Dedicated to the memory of the professor Constantin Turta and professor Mihail Revenco)



PROGRAM

October 8 – 9, 2015

Chişinău, Moldova

LIST OF SPONSORS



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TECHNOLOGICAL DEVELOPMENT, ACADEMY OF
SCIENCES OF MOLDOVA**



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Program Structure

October 7, Wednesday

12:00 – 18:00	Arrival, Registration	Main building of the Academy of Sciences of Moldova, <i>Hall (bld. Stefan cel Mare, 1)</i>
18:00-20:00	Welcome reception	Main building of the Academy of Sciences of Moldova, <i>Golden Hall (bld. Stefan cel Mare, 1)</i>

October 8, Thursday

8:00 – 9:00	Registration	
9:00 – 9:10	Opening ceremony	Main building of the Academy of Sciences of Moldova, <i>Blue Hall</i>
9:10 – 11:10	Session 1. Plenary Lectures	<i>(bld Stefan cel Mare, 1)</i>
11:10 – 11:30	Coffee break	
11:30 – 13:00	Session 2. Plenary Lectures	
13:00 – 14:30	Lunch break	Cafeteria, <i>(bld Stefan cel Mare, 1)</i>
14: 30 – 16:30	Session 3. Plenary Lectures	Main building of the Academy of Sciences of Moldova, <i>(bld Stefan cel Mare, 1)</i>
17:00 – 21:00	Excursion to Cricova winery	

October 9, Friday

9:00 – 11:00	Session 4. Plenary Lectures	Central Scientific Library “Andrei Lupan”, <i>Academiei str. 5a</i>
11:00 – 11:30	Coffee break	
11:30 – 13:00	Session 5. Oral Presentations	Café “Crizantema”, <i>(Academiei str. 1a)</i>
13:00 – 14:30	Lunch break	
14:30 – 16:10	Working in sections. Oral presentations Session 6 Session 7	Central Scientific Library “Andrei Lupan”, <i>(Academiei str. 5a)</i>
16:10 – 16:30	Coffee break	
16:30 – 18:00	Poster session	
18:00	Closing ceremony	
19:00	Conference dinner	Café “Crizantema”, <i>(Academiei str. 1a)</i>

MESSAGE FROM PRESIDENT OF THE ACADEMY OF SCIENCES OF MOLDOVA

Dear Ladies and Gentlemen, Colleagues and Friends,

It is my great pleasure on behalf of the governing body of the Academy of Sciences of Moldova and the International Advisory Board of the XVIIIth International Conference “*Physical Methods in Coordination and Supramolecular Chemistry*” to welcome all of you to Chisinau and to wish you interesting lectures and presentations, fruitful discussions and friendly contacts!

It is hard to believe that the Conference is functioning already for more than fifty years. This scientific event has been initiated by the outstanding scientists, chemist academician Anton Ablov, the founder of the school of coordination chemistry in Moldova and physicist academician Tadeusz Malinowski, the founder of the X-ray crystallography in Moldova - one of the most powerful tool for structure elucidation, and has started in September 1962 under the name “*Physical and mathematical methods in coordination chemistry*”. The Conference themes followed all historical events and emerged scientific branches and since 1996 it acts under its present motto, expanding the area of investigation to include supramolecular chemistry as well. This year's conference is dedicated to the brilliant scientist in coordination chemistry of Moldova Prof. C.Turta and Prof. M.Revenco, who brought a great contribution in the development of coordination chemistry in Moldova.

The XXI century opens new opportunities and puts new challenges for the human society. Life security, health protection, renewable energy sources, sustainable use of natural resources, these are just a few of the areas that represent the endless fields for application of scientific achievements. The content of our meeting clearly shows that the representatives of international scientific community gathered here are facing these pressing problems, so all together we are making a transition from unraveling the secrets of Nature to becoming masters of Nature.

PMCSC-XVIII will provide a comprehensive conference experience, with fifteen plenary lectures, thirteen oral presentations and a poster sessions. The main goal is to present novel breakthrough results demonstrating substantial potential for future basic research and technological applications.

I, once again, warmly welcome all the participants of PMCSC-XVIII to Chisinau for the conference that is to be both a scientifically stimulating and socially memorable event. I hope that two days of the Conference will be productive, will create a new impetus for scientific research, so that next time we will meet in three years to discuss new obtained results.

President of the Academy Of Sciences Of Moldova
Chairman of the International Advisory Board,
Academician Gheorghe Duca

GENERAL INFORMATION

Opening Ceremony and Plenary Lecture Sessions 1-3 will take place in the main building of the Academy of Sciences of Moldova in the Blue Hall (bd. Stefan cel Mare 1), nearby hotel Chisinau. Sessions **4-7** will take place at the Scientific Library of the Academy of Sciences of Moldova (Academiei str. 5a). These Conference venues are accessible by trolley-buses 3, 7, 9, 10; and micro-buses 107, 109, 120, 188. The destination stop is called DOKUCHYAEV str.

The program comprises 15 Plenary Lectures (30 min) and 13 Oral Presentations - 15-20 min, including time for discussion. Name of presenting Author is underlined. The overhead projector and PC with Power Point facilities will be available for presentations.

Posters session will be organised in the hall of the Scientific Library of the Academy of Sciences of Moldova (Academiei str. 5a). Participants are invited to put their posters on display (posters should not exceed 100 cm in width and 120 cm in height) on Friday, October 9 in the morning. The number on the poster board corresponds to number of presentation in the Book of Abstracts. Authors are requested to be at their posters during Poster Sessions on Friday from 16:30 till 18:00. The Organizers announce the Poster Competition for young scientists at our Conference. The scientific content of Poster and presentation style will be evaluated by the Jury. The best Posters will be awarded.

REGISTRATION DESK

On Wednesday October 7, from 12:00 till 18:00 and on Thursday October 8, from 8:00 till 9:00 Registration/Information Desk will be available in the foyer of the Main building of the ASM, bd. Stefan cel Mare 1. All members of the Organizing Committee and all the hosts are ready to help you in case of any problems or questions.

URBAN TRANSPORT

Trolleybuses, buses, and minibuses are cheap, 2 and 3 MDL (Moldavian lei), respectively. They all operate from 6:00 till 24:00. Tickets for buses and trolleybuses should be purchased on board the vehicle. Minibus tickets are bought from the driver. **Taxis** may be ordered using the following numbers in Chişinău:

14004 (Taxi-Favorit)	14100 (Maestro)	14474 (TaxiCab)
14005 (Avida)	14222 (Meridian)	14499 (Regal)
14008 (TaxiService)	14400 (Municipal)	14999 (Star)
14009 (Diplomat)	14441 (Metro)	

CERTIFICATE OF ATTENDANCE

A Certificate of Attendance will be given to participants, at request, at the Registration Desk upon arrival.

MEALS

Welcome reception will be organized in the Golden Hall of Academy of Sciences (bd. Stefan cel Mare 1). Lunches on Thursday, October 8 and on Friday, October 9 could be served in the cafeteria of the ASM and café "*Crizantema*" (nearby the Institute of Chemistry). Coffee and tea will be served during coffee breaks between scientific sessions. Several cafeterias are also available in the neighborhood of the Institute of Chemistry.

CONFERENCE PROCEEDINGS

Participants are kindly welcome to contribute with a full paper of their presentation which may be published in the next issue of **CHEMISTRY JOURNAL OF MOLDOVA (General, technological and ecological chemistry)**. The rules for papers could be received upon request from Editorial office, *Institute of Chemistry, Moldova Academy of Sciences, Str. Academiei, 3, MD-2028, Chişinău, Republic of Moldova, e-mail: chemjm@asm.md, chemjm@gmail.com, Fax: +37322 739954; Phone: + 37322 725490.*

WEATHER

The weather in October in Chişinău is usually pleasant, with temperatures within 15-20°C. However, rain is always possible, so an umbrella, light raincoat and comfortable shoes are advisable. For weather forecast please visit websites: <http://weather.yahoo.com> or <http://www.gismeteo.md>.

EXCHANGE

The Moldavian Lei (MDL) is the only legal currency in Moldova. Foreign currency exchange is available at the airport, in banks, in some hotels and in exchange offices. To check the exchange rate, please address to: <http://www.bnm.org/en>.

LANGUAGE

The official languages of the Conference will be English.

EXCURSION

Conference guests are invited to visit Cricova winery, a very popular attraction for tourists located 15 kilometers north from Chisinau. Famous for its wine cellars, it proposes to earn wine culture, to enjoy the pleasure of Moldovan wines, which are a masterpiece and a work of art. The excursion includes a tour through the largest underground wine cellar in the world, followed by a dinner in the testing hall, where you can to test local wines.

The participants are asked to inform the Registration Desk about their willingness to visit Cricova winery.

WEB

Full information about PMCSC-XVIII, updates on the program can be found at the Conference website: <http://chem.asm.md/pmcsc/>

SCIENTIFIC PROGRAM

Wednesday October 7

12:00 – 18:00 **Arrival, Registration**
*Address: Main building of the Academy of Sciences of Moldova,
Hall (bld. Stefan cel Mare, 1)*

18:00 **Welcome reception**
*Main building of the Academy of Sciences of Moldova,
Golden Hall (bld. Stefan cel Mare, 1)*

Thursday October 8

*Address: Main building of the Academy of Sciences of Moldova,
Blue Hall (bld. Stefan cel Mare, 1)*

8:30 – 9:00 **Registration**

9:00 – 9:10 **Opening ceremony**

Academician, Professor **Gheorghe Duca**, President of the Academy of Sciences of Moldova, Chairman of the International Advisory Board

Session 1 **Plenary lectures**

*Address: Main building of the Academy of Sciences of Moldova,
Blue Hall (bld. Stefan cel Mare, 1)*

Chairpersons: Prof. **G. Duca**, Prof. **S.M. Aldoshin**

L1 **THE TRENDS OF COORDINATION CHEMISTRY DEVELOPMENT
9:10 – 9:40** **IN THE REPUBLIC OF MOLDOVA**
30 min

Duca Gheorghe

L2 **POLYMERS IN SUPRAMOLECULAR ASSEMBLIES FOR BIO-
9:40 – 10:10** **RELATED APPLICATIONS**
30 min

Bogdan C. Simionescu

L3 **POLYFUNCTIONAL NITROSYL IRON COMPLEXES AS A NEW
10:10 – 10:40** **CLASS OF NO DONORS FOR MEDICINE, WHICH HAVE
30 min** **UNUSUAL “ENTANGLED” MAGNETIC AND ELECTRONIC
PROPERTIES**

S.M. Aldoshin, N.A. Sanina, A.V. Palii

- L4**
10:40 – 11:10
30 min
- ACTIVATION OF CHEMICAL AGENTS BY COORDINATION AND SYNTHESIS OF NEW MATERIALS AS BIOLOGICAL ACTIVE SUBSTANCES, CATALYSTS, ANALYTICAL REACTIVES AND MOLECULAR MAGNETS**
- Aurelian GULEA
- 11:10 – 11:30** **Coffee break**
- Session 2** **Plenary lectures**
Address: Main building of the Academy of Sciences of Moldova, Blue Hall (bld. Stefan cel Mare, 1)
 Chairpersons: Prof. **Rodolphe Clerac**, Prof. **Andrew Benniston**
- L5**
11:30 – 12:00
30 min
- MOFs FOR CYCLING HEAT TRANSFORMATION PROCESSES**
- Christoph Janiak
- L6**
12:00 – 12:30
30 min
- THE BEAUTY OF COORDINATION POLYMERS**
- Marius Andruh
- L7**
12:30 – 13:00
30 min
- BIOINORGANIC CHEMISTRY APPROACH IN THE DEVELOPMENT OF TYROSINASE INHIBITORS**
- Marius Réglie
- 13:00 – 14:30** **Conference photo, Lunch**
- Session 3** **Plenary lectures**
Address: Main building of the Academy of Sciences of Moldova, Blue Hall (bld. Stefan cel Mare, 1)
 Chairpersons: Prof. **Aurelian Gulea**, Prof. **Bogdan Simionescu**
- L8**
14:30 – 15:00
30 min
- PHOTO- AND ELECTRO-ACTIVE MOLECULAR SYSTEMS FOR FUEL PRODUCTION**
- Andrew C. Benniston
- L9**
15:00 – 15:30
30 min
- CHEMICAL SYNTHESIS, NMR CHARACTERIZATION AND BIOLOGICAL ASSESSMENT OF TWO STEROIDAL ANTICANCER AGENTS.**
- Donald Poirier

- L10**
15:30 – 16:00
30 min
- THE CONCEPT OF ORGANIC ZEOLITE AND ITS PRACTICAL USES**
- Janusz Lipkowski
- L11**
16:00 - 16:30
30 min
- SMART SYNTHETIC AZAHETEROCYCLES**
- Ionel I. Mangalagiu
- 17:00 – 21:00** **Excursion** to Cricova winery

Friday October 9

- Session 4** **Plenary lectures**
Address: Scientific Central Library “Andrei Lupan”, Main Lecture Hall (Academiei str. 5a)
- Chairpersons: Prof. **Marius Andruh**, Prof. **Cristoph Janiak**
- L12**
9:00 – 9:30
30 min
- MAGNETIC RELAXATION AND INTERACTIONS IN LANTHANIDE COMPLEXES AND CLUSTERS.**
- J. Bartolomé and C. Turta
- L13**
9:30 – 10:00
30 min
- OPTICAL AND MAGNETIC MOLECULAR SWITCHES BASED ON METAL-TO-METAL ELECTRON TRANSFER MECHANISM**
- Evangelia S. Koumoussi, Dmitri Mitcov, Ie-Rang Jeon, Diana Siretanu, Pierre Dechambenoit, Corine Mathonière, and Rodolphe Clérac
- L14**
10:00 - 10:30
30 min
- SUPRAMOLECULAR COMPOUNDS BASED ON THE DINUCLEAR COMPLEX $[\text{MO}_2\text{O}_2\text{S}_2]^{2+}$: FROM SYNTHESIS TO PROPERTIES AND APPLICATIONS**
- Sébastien Floquet and Emmanuel Cadot
- L15**
10:30 – 11:00
30 min
- CHIRALITY AND ITS ROLE IN COORDINATION CHEMISTRY – THE JEKYLL AND HYDE BEHAVIOUR OF METAL IONS IN SEPARATING THE LEFT AND RIGHT SIDES OF THE WORLD**
- Annie K. Powell

11:00 – 11:30 **Coffee break**

Session 5

Address: Central Scientific Library “Andrei Lupan”, Main Lecture Hall (Academiei str. 5a)

Oral presentations

Study of coordination compounds in the solid state and in solution by EPR, NMR, Mössbauer, laser and X-ray spectroscopy.

Chairpersons: Prof. **Janusz Lipkowski**, Prof. **Masahiro Mikuriya**

L16
11:30 – 12:00
30 min

**COMBINED TIME-REVERSAL TRANSFORMATION IN
MAGNETIC DIMER CLUSTERS OF COORDINATION
COMPOUNDS**

Ion I. Geru

O1
12:00 – 12:20
15 min

**X-RAY STUDY ON THE STRUCTURAL, MAGNETIC AND
CATALYTIC PROPERTIES OF FEPC FILMS**

F. Bartolomé and J. Bartolomé

O2
12:20 – 12:40
15 min

**POROUS STRUCTURES GENERATED BY CLUSTER BASED
POLYMERS OR DISCRETE BINUCLEAR Co(III) BIS-
DIOXIMATES**

V. Ch. Kravtsov, G. Duca

O3
12:40 – 13:00
15 min

**PREPARATION OF MIXED-OXIDE MATERIALS FROM
HETEROMETALLIC COORDINATION COMPOUNDS**

I. Bulimestru, Olivier Mentre, Nathalie Tancret, N. Cornei, S. Sova, N. Popa, A. Gulea

13:00-14:30

Lunch

Address: Café “Crizantema”, Academiei str. 1a, nearby Institute of Chemistry

Session 6

Oral presentations

Magnetochemistry and single-molecule magnets (SMMs)

Central Scientific Library “Andrei Lupan”, Main Lecture Hall (Academiei str. 5a)

Chairpersons: Prof. Ionel **Mangalagiu**, Prof. **Juan Bartolomé**

O4
14:30 – 14:50
15 min

**TEM and SEM DIFFRACTION METHODS
IN THE STUDY OF COORDINATION AND SUPRAMOLECULAR
COMPOUNDS**

Sharali Malik

O5
14:50 – 15:10
15 min

**RATIONAL DESIGN OF SINGLE MOLECULE MAGNETS WITH
THIOSEMICARBAZONE LIGANDS**

O. Palamarciuc, M. Secu, T. Palamarciuc, E. Stratulat, S. Sova, R. Clerac

- O6**
15:10 -15:30
15 min
- SYNTHESIS, CRYSTAL STRUCTURE, AND PROPERTIES OF COPPER(II) COMPLEXES WITH 1,4,7-TRIS(2-AMINOETHYL)-1,4,7-TRIAZACYCLONONADECANE**
Masahiro Mikuriya,^a Mayu Hamagawa,^a Natsuki Tomioka,^a Daisuke Yoshioka,^a Naoko Uehara,^a Rika Fujimori,^a Hiroki Yamamoto,^a Yoshinari Ando,^a Shoichi Hori,^a Taro Kuriyama,^a Ryoji Mitsuhashi,^a and Makoto Handa^b
- O7**
15:30 – 15:50
15 min
- AN EXPERIMENTAL AND THEORETICAL INVESTIGATION ON PENTA-COORDINATED COBALT(III) COMPLEXES WITH AN INTERMEDIATE S = 1 SPIN STATE: HOW HALIDE LIGANDS AFFECT THEIR MAGNETIC ANISOTROPY.**
 Brazzolotto,D.; Gennari,M.; Yu, S.; Pécaut, J.; Rouzières, M.; Clérac, R.; Duboc, C.; Orio, M.
- O8**
15:50 – 16:10
15 min
- METAL COMPLEXES WITH LIGANDS CONTAINING DIMETHYLSILOXANE UNITS: SELF-ASSEMBLING ABILITY**
Maria Cazacu, Alina Soroceanu, Mirela Zaltariov
- Session 7**
- Oral presentations**
 Relationship structure – property for the coordination compounds with the library of useful properties (bioactive compounds, materials for molecular electronics, nanomaterials).
Central Scientific Library “Andrei Lupan”, Small Lecture Hall (Academiei str. 5a)
Chairpersons: Prof. Marius Reglier, Prof. Donald Poirier
- O9**
14:30 – 14:50
15 min
- MEDICAL DIAGNOSIS AND OTHER NMR SPECTROSCOPY APPLICATIONS TO NATURAL MIXTURES**
 Alina Nicolescu, Natalia Uşurelu, Romana Vulturar, Calin Deleanu
- O10**
14:50 – 15:10
15 min
- RING PUCKERING PHENOMENA. PSEUDO JAHN-TELLER ORIGIN OF TWISTING IN N₂C₄H₂Y₂Z₂ (Y= O, S, Se; Z= H, F, Cl, Br) HETEROCYCLES**
Natalia N. Gorinchoy¹ and Ali Reza Ilkhani
- O11**
15:10 – 15:30
15 min
- THE BREAKING SYMMETRY PHENOMENA IN PHENOTHIAZINE DRUG AND ITS DERIVATIVES**
Ali Reza Ilkhani

- O12**
15:30 – 15:50
15 min
MÖSBAUER SPECTROSCOPY OF IRON COMPOUNDS IN THE IONIC CROSS-LINKED POLYMERS
Vasile Gutsanu
- O13**
15:50-16:10
15 min
FERROCENYLSILOXANE UREA: SYNTHESIS, STRUCTURE AND PROPERTIES
Mihaela Dascalu, Mihaela Balan, Sergiu Shova, Carmen Racles, Maria Cazacu
- 16:30 – 18:00**
Poster session
 Central Scientific Library “Andrei Lupan”, Entrance Hall (Academiei str. 5a)
- Poster jury**
 Dr. **Sebastien Floquet**, Dr. **Victor Kravtsov**, Dr. **Vasile Lozan**
- 18:00**
Closing ceremony: concluding remarks, awarding the winners of Poster competition
 Address: Scientific Central Library “Andrei Lupan”, Main Lecture Hall (Academiei str. 5a)
- 19:00**
Conference dinner
 Address: Café “Crizantema”, Academiei str. 1a, nearby the Institute of Chemistry

Friday, October 9

Poster session

- P1**
2D MANGANESE(II) NETWORKS BASED ON V-SHAPED BIS(P-CARBOXYPHENYL)DIPHENYLSILANE: SYNTHESIS, STRUCTURES AND PROPERTIES
Angelica Vlad, Mirela-Fernanda Zaltariov, Maria Cazacu, Sergiu Shova
- P2**
NMR METABOLIC FINGERPRINTING OF SOME PLANTS AND FRUITS
Alina Nicolescu, Mihaela Balan, Mihaela Ciobanu, Cristina Stavarache, Gabriela Ailiese, Doina Dănilă, Camelia P. Ștefanache, Mihaela Sillion, Ana-Maria Macsim, Alexandru Ciocârlan, Calin Deleanu
- P3**
STRUCTURAL INSIGHTS INTO THE ZINC-MEDIATED ACTIVITY OF POLYPYRIDINECHELATORS AT THE CHEMOKINE RECEPTOR CCR5
Roxana-Maria Amarandi, Stefanie Karlshøj, Mette Marie Rosenkilde, Aurel Pui
- P4**
NEW INHIBITORS OF GLYCATION AND OF THE FORMATION OF ADVANCED GLYCATION END PRODUCTS
Andronache Lilia, Gudumac Valentin, Gulea Aurelian, Tagadiuc Olga, Garbuz Olga, Pantea Valeriana

- P5** **MOLECULAR DYNAMICS SIMULATIONS AND SMALL ANGLE X-RAY SCATTERING ANALYSIS OF DIFERRIC HUMAN LACTOFERRIN IN SOLUTION**
Lilia Anghel, Raul Victor Erhan, Duca Gheorghe
- P6** **SYNTHESIS OF $\Delta^{8,9}$ - BICYCLOHOMOFARNEZENIC ACID HYDRAZIDE FROM NORAMBREINOLIDE**
A.N. Aricu, K.I. Kuchkova, A.N. Barba, E.C. Gorincioi, I.P.Dragalin, N.D.Ungur, P.F.Vlad
- P7** **SYNTHESIS OF 11-DIHOMODRIMAN-8 α -OL-12-ONE DERIVATIVES WITH AZINE AND HYDRAZIDE FRAGMENTS**
A.N. Aricu, K.I. Kuchkova, A.N. Barba, E.C. Gorincioi, I.P.Dragalin, N.D. Ungur, P.F.Vlad
- P8** **DFT STUDY OF TRANSITION STATES AND PRODUCTS OF RADICAL REACTION $HO_2^\bullet + HO_2^\bullet$**
Ion Arsene and Natalia Gorinchioy
- P9** **SYNTHESIS AND CRYSTAL STRUCTURE OF CHLORO-(2-FORMYLPYRIDINE-THIOSEMICARBAZONO)COPPER DIMETHYL SULFOXIDE SOLVATE.**
N.Bairac, P. Petrenko, Yu. Chumakov, A. Gulea
- P10** **QUANTUM-CHEMICAL CALCULATIONS AND MECHANISTIC CONSIDERATIONS OF THE ORGANOCATALYTIC DESTRUCTION OF POLYETHYLENE TEREPHTHALATE (PET)**
Emeric Bartha, Sorana Ionescu, Simona Nica, Anamaria Hanganu, Mihai Deleanu, Monica Duldner, Stela Iancu
- P11** **STUDY OF MAGNETIC AND ANTIOXIDATIVE PROPERTIES OF SOME BIOMETAL COORDINATION COMPOUNDS OF o-VANILLIN ISONICOTINOYLHYDRAZONE**
A. Gulea, V. Tsapkov, M. Birca, A. Cotovaia, V. Gudumac, O. Garbuz, I. Petcenco, E. Malic
- P12** **SYNTHESIS, STRUCTURE, AND ANTITUBERCULOUS PROPERTIES OF COPPER COORDINATION COMPOUNDS WITH 2-HYDROXY-3-METHOXYBENZALDEHYDE ISONICOTINOYLHYDRAZONE**
A. Gulea, V. Tsapkov, M. Birca, A. Cotovaia, V. Crudu, S. Eftodii, E. Malic
- P13** **NEW USES OF BIOACTIVE PHYTOCOMPOUNDS DEPENDING ON MOLECULAR STRUCTURE**
Bobeciă Valentin, Covaliov Victor, Albert Ivancic, Nenno Vladimir, Olga Covaliova
- P14** **INHIBITION OF STEEL CORROSION IN NATURAL WATER BY CARBOHYDRAZIDE**
Bologa O. A., Parshutin V.V., Sholtojan N.S., Koval' A.V., Chernysheva N.V., Bulhac I.

- P15** **AN OXO-BRIDGED HEXANUCLEAR IRON(III) CLUSTER: SYNTHESIS, STRUCTURE AND PROPERTIES**
Olga I. Botezat, Jan van Leusen, Victor Ch. Kravtsov, Paul Kögerler, Svetlana G. Baca
- P16** **HEXAMMINECOBALT(III) COMPLEX AS MULTIPLE HYDROGEN BOND DONOR AND ANION RECEPTOR**
I. Radu, P. Bouroush, J. Hauser, V. Kravtsov, S. Decurtins, S.-X. Liu, S. G. Baca
- P17** **SYNTHESIS, STRUCTURE AND SPECTROPHOTOMETRIC PROPERTIES OF PALLADIUM(II) 8-QUINOLINALDEHYDE N(4)-(2,4,6)-TRIMETHYLPHENYLTHIOSEMICARBAZONE**
P. Bulmaga, P. Bouroush, A. Sîrbu, I. Corja, T. Cazac
- P18** **STRUCTURE OF ONE-DIMENSIONAL COORDINATION POLYMER CATENA- {BIS[CADMIUM(II)(SUCCINATE)BIS(HYDROSUCCINATE)TETRA(NICOTINAMIDE)]}**
Diana Chisca, Eduard B. Coropceanu, Lilia Croitor, Marina S. Fonari
- P19** **Cu(II) COORDINATION POLYMERS WITH PICOLINIC ACID AND BIPYRIDINE LIGANDS**
Diana Chisca, Eduard B. Coropceanu, Lilia Croitor, Svetlana G. Baca, Karl Krämer, Shi-Xia Liu, Silvio Decurtins, Marina S. Fonari
- P20** **COORDINATION COMPOUNDS OF Zn AND Mo WITH MACROCYCLIC LIGANDS DERIVED FROM 2,6-DIFORMYL-4-METHYLPHENOL AND THEIR BIOLOGICAL PROPERTIES**
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- P117** **THE CRYSTAL STRUCTURE AND ANTITUMOR ACTIVITY OF 1,6-DINITRATO-BIS[2-(5-METHYLSULFANYL)-4-(PROP-2-EN-1-YL)-4--(1,2,4-TRIAZOL-3-YL)PYRIDINE]COPPER**
P. Petrenko, V. Graur, Yu. Chumakov, I. Truhina, V. Tsapkov, D. Poirier, A. Gulea
- P118** **SYNTHESIS AND BIOLOGICAL ACTIVITY OF COPPER, NICKEL, AND COBALT COORDINATION COMPOUNDS OF CONDENSATION PRODUCTS OF SOME CHALCONES WITH 4-PHENYLTHIOSEMICARBAZIDE**
V. Tsapkov, M. Boeva, M. Botnaru, O. Garbuz, V.Gudumac, A. Gulea

- P119** **SYNTHESIS AND STRUCTURE OF TWO NEW COORDINATION POLYMERS OF COBALT(II) AND NICKEL(II) WITH 1,2,3-BENZENETRICARBOXYLIC ACID AND 4,4'-BIS(1H-IMIDAZOL-1-YL)BIPHENYL**
Irina Voda, Vadim Druta, Vasile Lozan, Constantin Turta, Gamall Makhloufi, Christoph Janiak
- P120** **A NEW 1D COBALT(II) COORDINATION POLYMER WITH 1,3,5-TRIS(4-CARBOXYPHENYL)BENZENE AND 4,4'-BIS(1H-IMIDAZOL-1-YL)BIPHENYL. STRUCTURE AND INVESTIGATIONS**
Irina Voda, Vadim Druta, Constantin Indricean, Vasile Lozan, Gamall Makhloufi, Christoph Janiak
- P121** **SYNTHESIS, CRYSTAL STRUCTURE AND STUDY OF TWO NEW ZINC(II) AND COBALT(II) COORDINATION POLYMERS BASED ON 2,6-PYRIDINEDICARBOXYLIC ACID AND 1,4-BIS((1H-IMIDAZOYL-1-YL)METHYL)BENZENE**
Irina Voda, Constantin Indricean, Constantin Turta, Andrew C. Benniston
- P122** **DETERMINATION OF COPPER (II) AND LEAD (II) IONS BY SODIUM SALT OF 4-PHENYLSEMICARBAZONE 1,2-NAPHTHOQUINONE-4-SULFONIC ACID**
Oxana Zagurskaya-Sharaevskaya, Igor Povar
- P123** **X-RAY STUDY AND CHARACTERISATION OF A NEW PALLADIUM COMPLEX WITH 2-(2H-BENZOTRIAZOL-2-YL)-4,6-DITERT-PENTYLPHENOL LIGAND**
Olesea Cuzan, Sergiu Shova, Michel Maffei, Marius Reglier, Andrew C. Benniston, Constantin Turta
- P124** **SYNTHESIS AND CRYSTAL STRUCTURE OF DINUCLEAR DIOXOVANADIUM(V) COMPLEXES**
Natalia Talmaci, Diana Dragancea, Sergiu Shova
- P125** **MODIFICATION OF TiO₂ PARTICLES NANOSTRUCTURE FOR PHOTOCATALYTIC APPLICATIONS**
Covaliova Olga, Covaliov Victor, Duca Gheorghe
- P126** **A NEW METHOD OF CYANCOBALAMIN (VITAMIN B₁₂) PRODUCTION AND ITS PRACTICAL USES**
Covaliova Olga, Covaliov Victor, Duca Gheorghe, Nenno Vladimir, Bobeica Valentin
- P127** **SUPRAMOLECULAR ENSEMBLE CONTAINING DINUCLEAR AMINE-THIOLATE COMPLEXES AND ORGANIC COMPONENTS**
Vasile Lozan
- P128** **SYNTHESIS AND STUDY OF A NEW Co(II) MOF USING RIGIDE LIGANDS**
Vadim Druta, Irina Voda, Polina Bourosh, Victor Kravtsov, Vasile Lozan

Wednesday, October 7

- 18:00** Welcome reception for all participants and accompanying persons.
Main building of the Academy of Sciences of Moldova, Golden Hall, (bld Stefan cel Mare, 1)
- (included in the fee)**

Thursday, October 8

- 17:00** Excursion to *Cricova* winery.
Coach departs from the *Main building of the Academy of Sciences of Moldova, bld Stefan cel Mare, 1*
- (50 Euro per person)**

Friday, October 9

- 19:00** Conference dinner in Cafee ‘Crizantema’, Academiei str. 1A, nearby Institute of Chemistry
- (included in the fee)**