

The 7th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY**  
(EEC-2022, <http://eec-2022.mrda.md/>) March 3-4, 2022, Chisinau, Republic of Moldova



*Dedicated to the 70<sup>th</sup> Anniversary of Academician, Professor Gheorghe DUCA*

*The 7th International Conference*  
**"ECOLOGICAL AND ENVIRONMENTAL  
CHEMISTRY-2022"**

# **PROGRAM**



*March 3-4, 2022, Chisinau, Republic of Moldova*

Program of the 7th International Conference: "Ecological and Environmental Chemistry"  
(EEC-2022, <http://eec-2022.mrda.md/>)

***Dedicated to the 70<sup>th</sup> Anniversary of Academician, Professor Gheorghe DUCA***

**EEC-2022 Conference Chair: Acad., Prof. Gheorghe DUCA**, President of Chemical Society of the Republic of Moldova, Head of the Research Centre of Physical and Inorganic Chemistry, Institute of Chemistry, Moldova

**EEC-2022 Conference Secretariat:**

Dr. Lidia ROMANCIUC, Institute of Chemistry

The EEC-2022 Program includes the time schedule of the activities and participants' presentation within the 7<sup>th</sup> International Conference: "Ecological and Environmental Chemistry", organized and supported by Moldovan R&D organizations: Chemical Society of the Republic of Moldova, Institute of Chemistry, Faculty of Chemistry and Chemical Technology and Department of Industrial and Ecological Chemistry of Moldova State University, Department of Oenology and Chemistry and Faculty of Food Technologies of Technical University of Moldova, "N. Testemitanu" State University of Medicine and Pharmaceutics, Moldovan Research and Development Association, Institute of Ecology and Geography and "C. Stere" University of European Political and Economic Studies.

The EEC-2022 Conference is organized within the Moldova's State Program (2020-2022), Research Project "RedoxPro", Nr. 20.80009.5007.27, "Physico-chemical mechanisms of redox reactions with electron transfer in the vital, technological and environmental systems".

**"Ecological and Environmental Chemistry - 2022" International Conference Program ( 7 ; 2022 ; Chisinau)**

The 7th International Conference: "Ecological and Environmental Chemistry - 2022" Program, 3-4 March, 2022, Chisinau, Republic of Moldova : Abstract Book : [in vol.]/ ed. and conf. chairman : Gheorghe Duca. – Chisinau : CEP USM, 2022 - . 40 p.

Vol.– 2022. 40 p. – Antetit.: Chemical Society of the Republic of Moldova. – Texte : lb. eng. – Bibliogr. la sfârșitul art. – 100 ex.

## ***WELCOME TO PARTICIPANTS***

Dear Participants of the EEC-2022 Conference!

I am pleased to sincerely welcome you at the 7th International Conference on Ecological & Environmental Chemistry-2022 organized in Chisinau, Republic of Moldova. This important scientific event belongs to the series of preceding conferences in this domain already held in 1985, 1995, 2002, 2005, 2008, 2010, 2012 and in 2017. These conferences denounced a kind of milestones for the researchers and experts working in Ecological Chemistry and adjacent research fields not only in Moldova, but in many other countries worldwide.



Our current Conference gathered more than 250 scientists from Armenia, Algeria, Azerbaijan, Belarus, Brazil, China, Czech Republic, Finland, Georgia, Hungary, Israel, Italy, Kazakhstan, Moldova, Montenegro, Morocco, Poland, Romania, Russia, Ukraine, the USA. Such a great interest is undoubtedly caused by the significant role that Ecological and Environmental Chemistry plays in our life and the mutual understanding that the sound scientific outputs should underlie the environmentally-friendly development. Therefore, it is expected that the novel outstanding research results will be broadly presented and discussed, ensuring the active exchange in new ideas and approaches. EEC-2022 Conference is called to serve an arena for discussions and interconnections regarding the ecological, physical-chemical, biochemical processes in natural ecosystems as well as technological chains and elucidate their impacts on human health and environment.

I wish every success to the EEC-2022 Conference and all the Participants and hope that the presentations and discussions to be held will be of real value to all of us.

Also, it is my pleasure to express the profound acknowledgement to organizations which offered the support in EEC-2022 Conference organization, both online and offline: Institute of Chemistry, Chemical Society of the Republic of Moldova, Moldova State University, Technical University of Moldova, Moldovan Research and Development Association, and others.

***Academician, Professor Gheorghe DUCA***  
President of Chemical Society of the Republic of Moldova  
Head of Research Centre of Physical and Inorganic Chemistry, Institute of Chemistry

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**ZHURINOV Murat**  
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**AVORNIC Gheorghe**, Prof., Dr. Hab., „C. Stere” University of European Political and Economic Studies

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**STEGARESCU Vasile**, Prof., Dr., Institute of Ecology and Geography

**STURZA Rodica**, Prof., Dr. Hab., Technical University of Moldova

The Organizing Committee of the 7th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022** is highly appreciates the following institutions and individuals involved in the EEC-2022 conference organization:

- Chemical Society of the Republic of Moldova
- Institute of Chemistry
- State University of Moldova, Faculty of Chemistry and Chemical Technology, Department of Industrial and Ecological Chemistry
- Technical University of Moldova, Department of Oenology and Chemistry, Faculty of Food Technologies
- Institute of Ecology and Geography
- Academy of Sciences of Moldova
- Moldovan Research and Development Association
- University of European Political and Economic Studies „Constantin Stere”

### TOPICS RESPONSIBLE

	Sections	Name	Affiliation
<b>A</b>	<i>Fundamental Aspects of Ecological and Environmental Chemistry</i>	Dr. Hab. <b>Olga COVALIOVA</b> , Dr. <b>Iolanta BALAN</b> , Dr. <b>Lilia ANGHIEL</b> , <b>Crina VICOL</b>	<i>Institute of Chemistry</i>
<b>B</b>	<i>Water Science and Society</i>	Acad., Prof. <b>Tudor LUPASCU</b> , Dr. Hab. <b>Maria GONTA</b> , Dr. <b>Raisa NASTAS</b> , <b>Elena CULIGHIN</b>	<i>Institute of Chemistry, Moldova State University</i>
<b>C</b>	<i>Climate Change and Atmospheric Chemistry</i>	Dr. <b>Vasile STEGARESCU</b> , Dr. <b>Ala DONICA</b> , Dr. <b>Inga ZINICOVSCAIA</b>	<i>Institute of Ecology and Geography, Institute of Chemistry</i>
<b>D</b>	<i>Food, Soil and Waste Chemistry</i>	Prof., Dr. Hab. <b>Rodica STURZA</b> , Dr. <b>Iurie SUBOTIN</b> , Dr. <b>Ecaterina COVACI</b> Dr. <b>Dan ZGARDAN</b>	<i>Technical University of Moldova</i>
<b>E</b>	<i>Ecological and Environmental Chemistry within the Knowledge Triangle: Research-Education-Innovation</i>	Dr. <b>Viorica GLADCHI</b> , Dr. <b>Elena BUNDUCHI</b> , Dr. <b>Vladislav BLONSCHI</b> , <b>Angela LIS</b>	<i>Moldova State University</i>

## **EEC-2022 Background**

The 7th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022** (EEC-2022) will be held in Chisinau, Republic of Moldova on March 3-4, 2022.

The **Conference** provides opportunities to exchange the latest ideas, to present and discuss recent results on the physical-chemical and biochemical aspects of processes, which take part in the ecosystem – soil, air and water, and promising approaches of sustainable development including engineering and modeling, as well as social and educational implications. The aim of the conference is to encourage and facilitate the interdisciplinary communication among scientists, engineers, economists, teachers and professionals working on environmental issues and sustainable development.

The 7th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022** is an important international event, which attracts scientists and engineers from Europe, NIS, U.S.A. and other countries.

Ecological Chemistry started to develop in Moldova in 1985 when the First International Ecological Chemistry School was conducted. For more than 35 years this field is intensively expanding, being one among several priorities for sustainable development of the national economy.

The 7th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022** is part of a series of successful conferences organized in 1995, 2002, 2005, 2008, 2012 and 2017 being supported by UNESCO, MFGS, CRDF/MRDA, ONRG, as well as by several local R&D organizations such as Institute of Chemistry, Chemical Society of the Republic of Moldova, Department of Ecological and Industrial Chemistry of Moldova State University, Moldovan Research and Development Association, etc.

The 7<sup>th</sup> Edition of the EEC Conference is a continuation of the following series of events:

- 1985** - The First International Ecological Chemistry School
- 1995** – 1<sup>st</sup> International Conference on Ecological Chemistry
- 2002** - 2<sup>nd</sup> International Conference on Ecological Chemistry
- 2005** - 3<sup>rd</sup> International Conference on Ecological Chemistry
- 2008** - 4<sup>th</sup> International Conference and NATO ARW: The Role of Ecological Chemistry in Pollution Research and Sustainable Development
- 2010** – International Conference “Water: History, Resources and Perspectives”
- 2012** - 5<sup>th</sup> International Conference on Ecological Chemistry
- 2017** - 6<sup>th</sup> International Conference on Ecological and Environmental Chemistry

## **EEC-2022 Conference Topics**

### **A. Fundamental Aspects of Ecological and Environmental Chemistry**

- Oxidizing and reducing agents (antioxidants) in environment, technology and living organisms
- Electron transfer reactions in redox processes
- Thermodynamics and kinetics of redox processes in ecological systems
- Photochemical processes in the environment
- Modeling of the redox processes in the environment
- Chemical risk assessment and analysis

### **B. Water Science and Society**

- Ecological chemistry of natural waters, pollution and self-purification
- Industrial and municipal waste water treatment and reuse
- Modern approach and advanced methods to pollution control, monitoring and prevention: physico-chemical, biochemical and remote sensing methods, water quality indicators, etc.
- Transboundary waters and disasters management
- Water, sanitation and health

### **C. Climate Change and Atmospheric Chemistry**

- Redox processes in troposphere and stratosphere (air emissions, acid rains, precipitations, smog, etc.)
- Air quality monitoring, pollution prevention, control and modeling
- Air pollution impact on climate change
- Air quality and health

### **D. Food, Soil and Waste Chemistry**

- Food safety and security
- Chemical aspects of crop nutrition, soil fertility and degradation prevention
- Physico-chemical transformations of soil pollutants
- Wastes management, treatment and reuse in agriculture, food and wine production
- Hazardous wastes (POPs, hospital, pharmaceutical, etc.) detoxication

### **E. Ecological & Environmental Chemistry within the Knowledge Triangle: Research-Education-Innovation**

- Methodological aspects in assurance of high quality knowledge, skills, innovation, technologies and solutions towards the ecologically balanced future
- Innovative policies, strategies and solutions addressing the global challenges for environment and sustainable development
- Environmental transnational rights, legislation and control
- Sustainable use and circular management of natural resources
- Household chemicals in everyday life: safety and efficiency
- Pollution impact on the health

**The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022**

*March 3-4, 2022, Chisinau, Republic of Moldova*

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**The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY**  
*March 3-4, 2022, Chisinau, Republic of Moldova*

**PROGRAM STRUCTURE**

	<b>EEC-2022 Session/Activity</b>	<b>Location</b>
<b>March 3, 2022/ Thursday – Plenary Meeting</b> <i>Moldova State University (MSU), Campus Conference Hall:            3/2 Academiei Str., 2028 MD, Chisinau, Republic of Moldova</i>		
<u><a href="https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09">https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09</a></u> <b>Meeting ID: 285 505 7466</b> <b>Passcode: 290252</b>		
8:30-9:00	Participants Registration	
<b>9:00-10:30</b>	<b>Opening Session</b>	<b>MSU Campus Conference Hall</b>
<b>10:30-11:00</b>	<b>Academic Lecture</b>	<b>MSU Campus Conference Hall</b>
11:00-11:30	Break	
<b>11:30-13:30</b>	<b>Morning Plenary Session</b>	<b>MSU Campus Conference Hall</b>
13:30-14:00	Break	
<b>14:00-16:00</b>	<b>Afternoon Plenary Session</b>	<b>MSU Campus Conference Hall</b>
16:30	Cultural Event	
<b>March 4, 2022/ Friday - Parallel Sessions</b>		
9:00-9:30	Participants Registration	At the sessions location
<b>9:30-11:00</b>	<b>Session A:</b> Fundamental Aspects of Ecological and Environmental Chemistry	<b>MSU Campus Conference Hall 3/2 Academiei Str., Chisinau</b>
<u><a href="https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09">https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09</a></u> <b>Meeting ID: 285 505 7466</b> <b>Passcode: 290252</b>		
<b>9:30-11:00</b>	<b>Session B:</b> Water Science and Society	<b>MSU Senate Hall 3/2 Academiei Str., Chisinau</b>
<u><a href="https://us02web.zoom.us/j/83452940851?pwd=V2Q2OG1oQVBBUGs5Nlhzb2VYWHpHdz09">https://us02web.zoom.us/j/83452940851?pwd=V2Q2OG1oQVBBUGs5Nlhzb2VYWHpHdz09</a></u> <b>Meeting ID: 834 5294 0851</b> <b>Passcode: 040322</b>		
<b>9:30-11:00</b>	<b>Session C:</b> Climate Change and Atmospheric Chemistry	<b>Institute of Ecology and Geography 1 Academiei Str., Chisinau</b>
<u><a href="https://us02web.zoom.us/j/86438362293?pwd=UGUwZzZnWUZ5cE9xQ1d1V25Namt5Zz09">https://us02web.zoom.us/j/86438362293?pwd=UGUwZzZnWUZ5cE9xQ1d1V25Namt5Zz09</a></u> <b>Meeting ID: 864 3836 2293</b> <b>Passcode: 897439</b>		

<b>9:30-11:00</b>	<b>Session D:</b> Soil and Waste Chemistry	<b>Technical University of Moldova, 9/9 Studentilor Str., Bl. 5, Chisinau</b>
<p><b><a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDNhOTJmODYtMzYzMV00MDE3LWE3MmItNjc3MDI3N2M2Zjg1%40t_hread.v2/0?context=%7b%22Tid%22%3a%221b6d1f48-8893-4889-bdbf-1fb841bcae46%22%2c%22Oid%22%3a%22124d5116-75ca-420a-b74e-fa839c24ae7a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDNhOTJmODYtMzYzMV00MDE3LWE3MmItNjc3MDI3N2M2Zjg1%40t_hread.v2/0?context=%7b%22Tid%22%3a%221b6d1f48-8893-4889-bdbf-1fb841bcae46%22%2c%22Oid%22%3a%22124d5116-75ca-420a-b74e-fa839c24ae7a%22%7d</a></b></p>		
<b>9:30-11:00</b>	<b>Session E-1:</b> Ecological & Environmental Chemistry within the Knowledge Triangle: Research, Education, Innovation (Eng)	<b>Moldova State University 60 A. Mateevci Str., Chisinau</b>
<p><b><a href="https://bit.ly/3BH03vc">https://bit.ly/3BH03vc</a></b></p> <p><b>Meeting ID:</b> 951 8128 7954      <b>Passcode:</b> 016687</p>		
<b>9:30-11:00</b>	<b>Session E-2:</b> Ecological & Environmental Chemistry within the Knowledge Triangle: Research, Education, Innovation (Ro)	<b>Moldova State University 60 A. Mateevci Str., Chisinau</b>
<p><b><a href="https://meet.google.com/uqh-wzkg-cku">https://meet.google.com/uqh-wzkg-cku</a></b></p>		
11:00-11:30	Break	
<b>11:30-13:00</b>	<b>Continuation of Sessions A, B, C, D, E Access – above links to Sessions</b>	<b>At the sessions location</b>
13:00-14:00	Break	
<b>14:00-15:30</b>	<b>Continuation of Sessions B, D Access – above links to Sessions</b>	<b>At the sessions location</b>
<b>15:30</b>	<b>Closing Session:</b> Conclusions and Recommendations	<i>(On-line)</i>
<p><b><a href="https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09">https://us02web.zoom.us/j/2855057466?pwd=QXpOUgw3UlpOQXN2SC9uY0MxazRuZz09</a></b></p> <p><b>Meeting ID:</b> 285 505 7466      <b>Passcode:</b> 290252</p>		
	<b>Poster Session:</b> Presentations, Comments and Questions	<i>(On-line)</i>
<p><b>Posters upload:</b></p> <p><b><a href="https://drive.google.com/drive/folders/19fqCooZkdJrGiR9_i0qnSUFaGKDJ1Rjg?usp=sharing">https://drive.google.com/drive/folders/19fqCooZkdJrGiR9_i0qnSUFaGKDJ1Rjg?usp=sharing</a></b></p> <p><b>Posters Discussion Sessions A,B,C,E: Application ‘Wonder.me’</b></p> <p><b><a href="https://app.wonder.me/?spaceId=51d42ab5-b1e6-44e4-a0c7-e84b3c3e1fb7">https://app.wonder.me/?spaceId=51d42ab5-b1e6-44e4-a0c7-e84b3c3e1fb7</a></b></p> <p><b>Posters Discussion Sessions D:</b></p> <p><b><a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_NGRiYmNhYWItOTMzOS00YmJlTgyNjQtN2E0MDcyN2VhNWY2%40t_hread.v2/0?context=%7b%22Tid%22%3a%221b6d1f48-8893-4889-bdbf-1fb841bcae46%22%2c%22Oid%22%3a%22124d5116-75ca-420a-b74e-fa839c24ae7a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_NGRiYmNhYWItOTMzOS00YmJlTgyNjQtN2E0MDcyN2VhNWY2%40t_hread.v2/0?context=%7b%22Tid%22%3a%221b6d1f48-8893-4889-bdbf-1fb841bcae46%22%2c%22Oid%22%3a%22124d5116-75ca-420a-b74e-fa839c24ae7a%22%7d</a></b></p>		

# The 7th International Conference

## ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

### PLENARY SESSION PROGRAM

**March 3, 2022**

*Moldova State University, Campus Conference Hall (MSU):  
3/2 Academiei Str., 2028 MD, Chisinau, Republic of Moldova*

	<b>EEC-2022 Session/Activity</b>
8:30-9:00	<b>Participants' Registration</b>
<b>Opening Session</b> 9:00-10:30	<i>Opening Ceremony</i> <b>Prof., Dr. Hab. Aculina ARICU</b> , <i>Institute of Chemistry</i> <b>Prof. Ashok VASEASHTA</b> , <i>International Clean Water Institute, USA</i>
	<i>Welcome Speeches</i>
<b>Academic Lecture</b> 10:30-11:00	<b>Acad. Gheorghe DUCA</b> , <i>Institute of Chemistry, Moldova</i> HYDROGEN PEROXIDE: FUNDAMENTAL AND APPLIED RESEARCH IN ECOLOGICAL CHEMISTRY
11:00-11:30	Break
<b>Morning Plenary Session</b> 11:30-13:30	<b>Moderators:</b> <i>Prof. Ashok VASEASHTA, International Clean Water Institute, USA</i> <i>Prof. Serghei TRAVIN, "N.N. Semenov" Federal Research Center for Chemical Physics, Russian Academy of Science, Moscow, Russia</i>
11:30-12:00	<b>Prof. Ashok VASEASHTA</b> , <i>International Clean Water Institute, USA</i> BIO-BASED PLASTICS FOR ENVIRONMENTAL SUSTAINABILITY AND REDUCTION OF MICRO/NANOPLASTICS IN AQUATIC ECOSYSTEMS
12:00-12:30	<b>Acad., Prof. Asaf HAJIEV</b> , <i>Azerbaijan National Academy of Sciences, Azerbaijan</i> ACTUAL PROBLEMS OF ENVIRONMENT POLLUTION
12:30-13:00	<b>Prof. Sergei TRAVIN</b> , <i>"N.N. Semenov" Federal Research Center for Chemical Physics, Russian Academy of Science, Moscow, Russia</i> DEVELOPMENT OF THE APPLICATION OF THE MONTE CARLO METHOD FOR SOLUTION OF ECOLOGICAL CHEMISTRY TASKS

13:00-13:30	<b>Prof. Ionel MANGALAGIU</b> , "Alexandru Ioan Cuza" University of Iași, <b>Romania</b> ECOLOGICALLY FRIENDLY METHODS USED IN HETEROCYCLIC CHEMISTRY
13:30-14:00	Break
<b>Afternoon Plenary Session 14:00-16:00</b>	<b>Moderators:</b> <i>Prof. Ionel MANGALAGIU</i> , "Alexandru Ioan Cuza" University of Iași, <b>Romania</b> <i>Prof. Avino PASQUALE</i> , University of Molise, <b>Italy</b>
14:00-14:30	<b>Prof. Avino PASQUALE</b> , University of Molise, <b>Italy</b> STATE-OF-ART OF THE ANALYTICAL METHODS BASED ON THE HPLC-ELECTROCHEMICAL SENSOR COUPLING
14:30-15:00	<b>Acad., Prof. Janusz LIPKOWSKI</b> , Cardinal Stefan Wyszyński University in Warsaw, <b>Poland</b> THE 'GASEOUS' SWORD OF DAMOCLES OVER OUR CIVILIZATION
15:00-15:30	<b>Prof. Alexander GARABADZHIU</b> , Saint Petersburg State Institute of Technology(Technical University), Sankt-Petersburg, <b>Russia</b> ON THE TECHNICAL POSSIBILITY OF PHOTOSYNTHESIS INTENSIFICATION TO FIGHT THE "CARBON PRINT"
15:30-16:00	<b>Acad., Prof. Momir DJUROVIC</b> , Montenegrin Academy of Sciences and Arts, <b>Montenegro</b> RENEWABLES AND CHEMISTRY
16:00-16:30	<b>Prof. Sun Kun OH</b> , Konkuk University, Seoul, <b>Korea</b> NUCLEAR WASTE MANAGEMENT IN KOREA
16:30	Cultural Event

# The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

## March 4, 2022 - PROGRAM

### Session A

#### **FUNDAMENTAL ASPECTS OF ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY**

*Moldova State University, Campus Conference Hall (MSU):  
3/2 Academiei Str., 2028 MD, Chisinau, Republic of Moldova*

EEC-2022 PRESENTATIONS & ACTIVITIES	
9:00-9:30	<b>Participants' Registration</b>
<b>9:30-11:00</b> <b>Moderators:</b>	<u>Acad., Prof. Anatolie SIDORENKO</u> , "D.Ghitu" Institute of Nanotechnologies and Electronic Engineering, Moldova <u>Prof., Dr. Hab. Igor POVAR</u> , Institute of Chemistry, Moldova
<b>9:30-9:45</b>	<b>Prof., Dr. Hab. Igor POVAR</b> , Institute of Chemistry, <b>Moldova</b> THERMODYNAMIC DETERMINATION OF THE PRECIPITATION CONDITIONS IN MIXTURES OF ANIONIC AND CATIONIC SURFACTANTS <u>I. Povar, P. Spataru, D. Shepel, B. Pintilie, O. Spinu, A. Visnevschi</u> , Moldova
<b>9:45-10:00</b>	<b>Prof. Victor MUKHIN</b> , NPO NEORGANICA, <b>Russia</b> COMPARATIVE EVALUATION OF ANTIDOTE EFFECTIVENESS ACTIVE CARBONS <u>V. Mukhin, Yu. Spiridonov</u> , Russia
<b>10:00-10:15</b>	<b>Acad., Prof. Anatolie SIDORENKO</b> , "D.Ghitu" Institute of Nanotechnologies and Electronic Engineering, <b>Moldova</b> NEW OPPORTUNITIES IN THE DETECTION OF ENVIRONMENTAL POLLUTANTS <u>A. Sidorenko</u> , Moldova
<b>10:15-10:30</b>	<b>Crina VICOL</b> , Institute of Chemistry, <b>Moldova</b> STUDY OF SYNERGIC AND ANTI-SYNERGIC INTERACTIONS OF SOME GRAPE ANTIOXIDANTS WITH ORGANIC ACIDS <u>C. Vicol</u> , Moldova
<b>10:30-10:45</b>	<b>Dr. Ivan POZDNYAKOV</b> , Voevodsky Institute of Chemical Kinetics and Combustion, Siberian Branch of the Russian Academy of Sciences, <b>Novosibirsk, Russia</b> THE APPLICATION OF IRON HYDROXO AND OXALATE COMPLEXES IN ECOLOGICAL PHOTOCHEMISTRY <u>I. P. Pozdnyakov, Y. E. Tyutereva, M.V. Novikov, O. A. Snytnikova, V. F. Plyusnin</u>

<b>10:45-11:00</b>	<b>Yuri BELIKOV</b> , <i>Voevodsky Institute of Chemical Kinetics and Combustion, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, <b>Russia</b></i> PHOTOCHEMISTRY OF FEEDDS COMPLEX AND ITS EFFICIENCY IN •OH GENERATION <i>Yu. Belikov, O. Snytnikova, I. Pozdnyakov, Russia</i>
11:00-11:30	Break
<b>11:30-13:00</b> <b>Moderators:</b>	<i>Dr. Hab. Olga COVALIOVA, Institute of Chemistry, Moldova</i> <i>Natalia BOLOCAN, Institute of Chemistry, Moldova</i>
<b>11:30-11:45</b>	<b>Dr. Hab. Olga COVALIOVA</b> , <i>Institute of Chemistry, <b>Moldova</b></i> APPLICATION OF METAL OXIDE NANOPARTICLES FOR PHOTOCATALYTIC TREATMENT OF WATER ENVIRONMENT <i>O. Covaliova, E. Monaico, C. Vicol, L. Romanciuc, Moldova</i>
<b>11:45-12:00</b>	<b>Natalia BOLOCAN</b> , <i>Institute of Chemistry, <b>Moldova</b></i> KETO-ENOL TAUTOMERISM AND GEOMETRICAL ISOMERISM OF DIHYDROXYFUMARIC ACID. A DFT STUDY IN GAS AND WATER <i>N. Bolocan, Gh. Duca, Moldova</i>
<b>12:00-12:15</b>	<b>Dr. Viorica PARVULESCU</b> , <i>Institute of Physical Chemistry, <b>Romania</b></i> REDOX PROPERTIES AND CATALYTIC ACTIVITY RELATIONSHIPS IN METHANE COMBUSTION FOR Pt-CeO <sub>2</sub> /TiO <sub>2</sub> SUPPORTED CATALYSTS <i>M. Ciobanu, G. Petcu, F. Papa, N. G. Apostol, V. Parvulescu, Romania</i>
<b>12:15-12:30</b>	<b>Dr. Hatice Eser OKTEN</b> , <i>Izmir Institute of Technology, <b>Turkey</b></i> TECHNO-ECONOMIC ASSESSMENT OF ELECTROCHEMICAL PROCESS FOR SUSTAINABLE REMOVAL OF METHYLENE BLUE <i>A. Y. Goren, Y. K. Recepoglu, Ö. Edebali, Ç. Şahin, M. Genişoğlu, H. E. Okten, Turkey</i>
<b>12:30-12:45</b>	<b>Dr. Tatyana KOUZNETSOVA</b> , <i>Institute of General and Inorganic Chemistry of the National Academy of Sciences of Belarus, <b>Belarus</b></i> SYNTHESIS OF SILICA-CELLULOSE HYBRID MATERIALS AND MESOPOROUS SILICA PRODUCTS VIA SOL-GEL MINERALIZATION <i>T. Kouznetsova, A. Ivanets, Z. Yakubovskaya, Belarus</i>
<b>12:45-13:00</b>	<b>Dr. Natalia GORINCHOY</b> , <i>Institute of Chemistry, <b>Moldova</b></i> THE H-BOND IN ENVIRONMENTAL REDOX PROCESSES AS A PSEUDO-JAHH-TELLER EFFECT <i>N. Gorinchoy, I. Balan, M. Gorbachev, I. Arsene, V. Polinger, Gh. Duca, I. Bersuiker, Moldova, USA</i>
13:00-14:00	Break
<b>11:30-15:30</b>	<b>Poster Session: Presentations, Comments and Questions (On-line)</b>
<b>15:30</b>	<b>Closing Session: Conclusions and Recommendations (On-line)</b>

11:30-15:30	POSTER SESSION
<b>Moderators:</b>	<u>Dr. Lilia ANGHEL</u> , <i>Institute of Chemistry, Moldova</i> <u>Dr. Iolanta BALAN</u> , <i>Institute of Chemistry, Moldova</i>
<b>11:30-12:00</b>	<b>POSTER PRESENTATIONS – from EEC-A-PS-1 to EEC-A-PS-10</b>
EEC-A-PS-1	EFFECT OF SOME PLANT EXTRACTS ADDITION ON THE OXIDATION STABILITY OF BIODIESEL <u>V. Anishchenko</u> , <u>I. Laguta</u> , <u>O. Stavinskaya</u> , <u>P. Kuzema</u> , <u>R. Ivannikov</u> , <u>N. Smirnova</u> , <u>A. Kramar</u> , <u>O. Linnik</u> , <i>Ukraine</i>
EEC-A-PS-2	THEORETICAL STUDY OF THE THREE-STAGES RADICAL MECHANISM OF THE REACTION OF DIHYDROXYFUMARIC ACID WITH THE STABLE RADICAL DPPH• <u>I. Arsene</u> , <u>N. Gorinchoy</u> , <u>M. Gorbachev</u> , <i>Moldova</i>
EEC-A-PS-3	DFT MODELING OF ADSORPTION OF $[\text{Sr}(\text{H}_2\text{O})_6]^{2+}$ IONS ON ACTIVATED CARBONS <u>I. Balan</u> , <u>V. Ciornea</u> , <u>R. Nastas</u> , <u>I. Ginsari</u> , <i>Moldova</i>
EEC-A-PS-4	CRYSTAL STRUCTURE AND HIRSHFELD SURFACE ANALYSIS OF A MULTI-COMPONENT COMPOUND COMPRISING HEXAAMMINE Co(III) CATIONS AND 3- PYRIDINESULFONATE ANIONS <u>E. Beleaeu</u> , <u>V. Kravtsov</u> , <u>S. Baca</u> , <i>Moldova</i>
EEC-A-PS-5	THE ROLE OF CHELATES IN ECOLOGICAL STABILITY OF THE ENVIRONMENT <u>I. Beshkenadze</u> , <u>N. Klarjeishvili</u> , <u>M. Gogaladze</u> , <u>M. Chikaidze</u> , <u>L. Gogua</u> , <i>Georgia</i>
EEC-A-PS-6	BIOPOLYMER MATERIALS BASED ON CHITOSAN CONJUGATED WITH SULFODERIVATIVES OF ZINC(II) PHTHALOCYANINES AND GOLD NANOPARTICLES <u>I. Bulimestru</u> , <u>T. Potlog</u> , <u>N. Popa</u> , <u>I. Lungu</u> , <u>P. Bulmaga</u> , <u>S. Robu</u> , <i>Moldova</i>
EEC-A-PS-7	A 2D CADMIUM COORDINATION HOST FRAMEWORK WITH INCLUSION OF 4,4'-DIAMINODIPHENYLMETHANE AND 4,4'-BIPYRIDINE GUEST MOLECULES <u>N. Caimac</u> , <u>E. Melnic</u> , <u>D. Chișca</u> , <i>Moldova</i>
EEC-A-PS-8	UNPRECEDENTED ATOM TRANSFER RADICAL ADDITION – HYDROGEN ATOM TRANSFER SEQUENCE UNDER VISIBLE LIGHT PHOTOREDOX CATALYSIS <u>C. Cazacu</u> , <u>A. Topală</u> , <u>V. Gîrbu</u> , <u>V. Kulcitki</u> , <i>Moldova</i>
EEC-A-PS-9	AB INITIO STUDY OF HEXAAMMINE COBALT(III) CATIONS INTERACTION WITH MONO- DIANIONS AND NEUTRAL MOLECULES IN MULTI-COMPONENT COMPOUNDS <u>Y. Chumakov</u> , <u>M. Darii</u> , <u>E. Nirca</u> , <u>V. Kravtsov</u> , <u>P. Bourosh</u> , <u>S. Baca</u> , <i>Moldova</i>
EEC-A-PS-10	ADSORPTION OF A CATIONIC DYE ONTO ALGINATE-BASED MAGSORBENT: MACHINE LEARNING AND MOLECULAR MODELING APPROACHES <u>C. Cojocar</u> , <u>P. Pascariu</u> , <u>A.-C. Humelnicu</u> , <u>P. Samoila</u> , <i>Romania</i>

<b>12:00-12:30</b>	<b>POSTER PRESENTATIONS – from EEC-A-PS-11 to EEC-A-PS-20</b>
EEC-A-PS-11	SYNTHESIS, STRUCTURAL CHARACTERIZATION AND THERMAL ANALYSIS OF Co(II) MONOMER BASED ON 2,3-PYRIDINEDICARBOXYLIC ACID <b><u>E. Coșcodan</u>, E. Melnic, O. Petuhov, D. Chișca, Moldova</b>
EEC-A-PS-12	BACTERICIDAL AND BACTERIOSTATIC ACTIVITY OF IRON(III) COMPLEXES WITH SCHIFF-BASED LIGANDS ON <i>STAPHYLOCOCCUS AUREUS</i> , <i>ESCHERICHIA COLI</i> AND <i>CANDIDA ALBICANS</i> CULTURES <b><u>O. Danilescu</u>, <u>M. Cocu</u>, <u>I. Bulhac</u>, Moldova</b>
EEC-A-PS-13	SYNTHESIS AND NMR CHARACTERIZATION OF SOME NATURE-INSPIRED AND NATURE-RELEASED BIOLOGICAL ACTIVE COMPOUNDS <b><u>C. Deleanu</u>, <u>A. Nicolescu</u>, <u>F. Georgescu</u>, <u>N. Usurelu</u>, Romania, Moldova</b>
EEC-A-PS-14	MULTIPLE COMPONENT IONIC COMPLEXES OF HEXAMMINECOBALT CHLORIDE WITH TWO PHARMACOPHORIC ACIDS <b><u>M. Fonari</u>, <u>V. Kravtsov</u>, Moldova</b>
EEC-A-PS-15	2D AND 3D Nd(III) COORDINATION POLYMERS ASSEMBLED VIA BRIDGING 1,4-BENZENEDICARBOXYLATE AND OXALATE LINKERS <b><u>M. Fonari</u>, <u>V. Lozovan</u>, <u>V. Kravtsov</u>, Moldova</b>
EEC-A-PS-16	<i>TARAXACUM OFFICINALE</i> ACTS AS A POWERFUL ANTIOXIDANT <b><u>A. Fulga</u>, <u>O. Tagadiuc</u>, <u>V. Gudumac</u>, Moldova</b>
EEC-A-PS-17	SYNTHESIS OF QUERCETIN FUNCTIONALIZED CHITOSAN AND DETERMINATION OF ANTIOXIDANT PROPERTIES <b><u>M. Gonta</u>, <u>Gh. Duca</u>, <u>E. Sirbu</u>, <u>S. Robu</u>, <u>L. Mocanu</u>, Moldova</b>
EEC-A-PS-18	MOLECULAR ORBITAL NATURE OF THE ATMOSPHERIC REACTIONS BETWEEN THE NO <sub>3</sub> RADICAL AND C <sub>3</sub> – C <sub>10</sub> N-ALKANES: DFT STUDY <b><u>M. Gorbachev</u>, <u>N. Gorinchoy</u>, Moldova</b>
EEC-A-PS-19	IONIC QUASI-SPLET MECHANISM OF THE INTERACTION OF SOME ORGANIC ANTIOXIDANT ACIDS WITH THE RADICALS ABTS <sup>•+</sup> AND DPPH <sup>•</sup> <b><u>M. Gorbachev</u>, <u>N. Gorinchoy</u>, <u>I. Balan</u>, Moldova</b>
EEC-A-PS-20	PRELIMINARY RESULTS ON <sup>1</sup> H AND <sup>13</sup> C NMR STUDIES REGARDING THE RADICAL SCAVENGING ACTIVITIES OF ASCORBIC ACID AND DIHYDROXYFUMARIC ACID USING 1,1-DIPHENYL-2-PICRYLHYDRAZYL <b><u>E. Gorincioi</u>, <u>C. Vicol</u>, <u>A. Barba</u>, <u>Gh. Duca</u>, Moldova</b>
<b>12:30-13:00</b>	<b>POSTER PRESENTATIONS – from EEC-A-PS-21 to EEC-A-PS-30</b>
EEC-A-PS-21	ECOLOGICAL CONDITIONALITY OF THE CHEMICAL STRUCTURE OF THE MAIN CLASSES OF NATURAL PIGMENTS <b><u>I. Kolomiets</u>, <u>I. Dragutsan</u>, Moldova</b>
EEC-A-PS-22	PHOTOCATALYTIC ACTIVITY OF TITANIA AND IRON TITANATES FILMS IN THE PROCESS OF LIGNIN TRANSFORMATION <b><u>A. Kramar</u>, <u>V. Anishchenko</u>, <u>P. Kuzema</u>, <u>N. Smirnova</u>, <u>I. Laguta</u>, <u>O. Stavinskaya</u>, <u>R. Ivannikov</u>, <u>O. Linnik</u>, Ukraine</b>
EEC-A-PS-23	OCTANUCLEAR COBALT(III) CLUSTER WITH A DIALDEHYDE LIGAND <b><u>A. Mindru</u>, <u>I. Malaestean</u>, <u>S. Shova</u>, <u>D. Dragancea</u>, Moldova</b>



EEC-A-PS-24	INFLUENCE OF ACID MODIFICATION OF NATURAL PHLOGOPITE ON CATALYTIC ACTIVITY OF SUPPORTED Pd(II)-Cu(II) COMPLEXES IN THE REACTION OF OXIDATION OF CARBON MONOXIDE BY AIR OXYGEN <b><u>A. Nazar</u>, T. Rakitskaya, T. Kiose, Ukraine (Virtual)</b>
EEC-A-PS-25	A HEXANUCLEAR {Fe <sub>6</sub> } PIVALATE CLUSTER BASED ON AMINOALCOHOL LIGANDS <b><u>D. Podgornii</u>, S. Baca, V. Kravtsov, Moldova</b>
EEC-A-PS-26	WHAT IS THE CHEMICAL SYNERGISM? <b><u>I. Povar</u>, O. Spinu, B. Pintilie, Moldova</b>
EEC-A-PS-27	THERMODYNAMIC ANALYSIS OF PRECIPITATION CONDITIONS OF ANIONIC SURFACTANTS BY CALCIUM AND MAGNESIUM IONS <b><u>I. Povar</u>, P. Spataru, D. Shepel, B. Pintilie, O. Spinu, A. Visnevschi, Moldova</b>
EEC-A-PS-28	THERMODYNAMIC ANALYSIS OF PRECIPITATION CONDITIONS IN THE MIXTURE OF ANIONIC AND AMPHOTERIC SURFACTANTS <b><u>I. Povar</u>, P. Spataru, D. Shepel, B. Pintilie, O. Spinu, A. Visnevschi, Moldova</b>
EEC-A-PS-29	SYNTHETIC ZEOLITES MODIFIED WITH SALTS TRANSITION METALS IN THE REACTION OF CHEMISORPTION-CATALYTIC OXIDATION OF SULFUR DIOXIDE BY AIR OXYGEN <b><u>T. Rakitskaya</u>, T. Kiose, L. Raskola, Ukraine</b>
EEC-A-PS-30	THE EFFECT OF HALIDE IONS ON THE ACTIVITY OF D-METAL COMPLEXES SUPPORTED ON NATURAL BENTONITE IN THE REACTION OF LOW TEMPERATURE OZONE DECOMPOSITION <b><u>T. Rakitskaya</u>, A. Truba, G. Dzhyga, Ukraine</b>
<b>14:00-14:30</b>	<b>POSTER PRESENTATIONS – from EEC-A-PS-31 to EEC-A-PS-37</b>
EEC-A-PS-31	INFRARED SPECTROSCOPY OF URINARY STONES OF PATIENTS FROM REPUBLIC OF MOLDOVA IN 2016-2021 <b><u>D. Shepel</u>, M. Rusu, Moldova</b>
EEC-A-PS-32	APPLICATION OF INFRARED SPECTROSCOPY IN QUALITATIVE ANALYSIS OF ACTIVATED SLUDGE <b><u>D. Shepel</u>, P. Spataru, M. Rusu, Moldova</b>
EEC-A-PS-33	SORPTION-LUMINESCENCE METHOD FOR DETERMINATION OF YTTERBIUM <b><u>O. Stashkiv</u>, V. Vasylechko, R. Gamernyk, Ukraine</b>
EEC-A-PS-34	APPLICATION OF BIS(TRIETHANOLAMINE)-COBALT(II) DINITRATE IN THE PRODUCTION OF ENZYMES BY MICROORGANISMS <b><u>D. Stati</u>, V. Kravtsov, S. Labliuc, E. Dvornina, S. Clapco, A. Ciloci, S. Baca, Moldova</b>
EEC-A-PS-35	TECHNOLOGICAL PROCESSES FOR REMOVAL OF NITROGEN COMPOUNDS AT NEW WWTP IN THE CAUSENI CITY <b>A. Visnevschi, P. Spataru, <u>I. Povar</u>, Moldova</b>
EEC-A-PS-36	IMMUNE RESPONSE MODELING UNDER VIRAL LOAD <b><u>O. Yaltychenko</u>, N. Gorinchoy, Gh. Duca, Moldova</b>
EEC-A-PS-37	SYNERGY EFFECT OF VITAMINS E AND C ON THE EXAMPLE OF LIPID PEROXIDATION REACTION <b><u>O. Yaltychenko</u>, E. Kanarovskii, N. Gorinchoy, Moldova</b>

# The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

## March 4, 2022 – PROGRAM

### Session B

#### **WATER SCIENCE AND SOCIETY**

*Institute of Chemistry*

*3 Academiei Str., Chisinau, Republic of Moldova*

<b>EEC-2022 PRESENTATIONS &amp; ACTIVITIES</b>	
9:00-9:30	<b>Participants' Registration</b>
<b>9:30-11:00</b> <i>Moderators:</i>	<i>Acad., Prof. Tudor LUPASCU, Institute of Chemistry, Moldova</i> <i>Dr. Corina ITCUS, National Institute of Research and Development for Biological Sciences, Bucharest, Romania</i> <i>Dr. Raisa NASTAS, Institute of Chemistry, Moldova</i>
<b>9:30-9:45</b>	<b>Acad., Prof. Tudor LUPASCU, Institute of Chemistry, Moldova</b> SYNTHETIC AND NATURAL ADSORBENTS FOR WATER TREATMENT AND DETOXIFICATION OF THE HUMAN BODY <i>T. Lupascu, O. Petuhov, R. Nastas, N. Timbaliuc, M. Ciobanu, T. Mitina, L. Lupascu I. Gînsari, E. Culigin, Moldova</i>
<b>9:45-10:00</b>	<b>Dr. Corina ITCUS, National Institute of Research and Development for Biological Sciences, Bucharest, Romania</b> PHYSICO-CHEMICAL AND MICROBIOLOGICAL ASSESSMENT OF WATERS AND SEDIMENTS FROM DANUBE DELTA <i>C. Itcus, I. Tusa, O. Pacioglu, D. Florea, G. Gavril, M. Sidoroff, C. Coman, Romania</i>
<b>10:00-10:15</b>	<b>Acad. Prof. Vladimer TSITSISHVILI, Petre Melikishvili Institute of Physical and Organic Chemistry at Ivane Javakhishvili Tbilisi State University, Georgia</b> BACTERICIDAL MATERIALS BASED ON NATURAL ZEOLITES <i>V. Tsitsishvili, N. Dolaberidze, N. Mirdzveli, M. Nijaradze, Z. Amiridze, Georgia</i>
<b>10:15-10:30</b>	<b>Dr. Thamer Adnan ABDULLAH, Sustainability Solutions Research Lab, Bio-, Environmental and Chemical Engineering Research and Development Center, Faculty of Engineering, University of Pannonia, Hungary</b> NEW NANOSIZE MATERIALS OBTAINED BY THERMAL TREATMENT OF VANADIUM OXIDES WITH APPLICATION IN DYES REMOVAL IN WASTEWATER TREATMENT <i>T. A. Abdullah, T. Juzsakova, R. T. Rasheed, A. D. Salman, M. Adelikhah, L. P. Cuong, I. Cretescu, Hungary, Iraq, Vietnam, Romania</i>

<b>10:30-10:45</b>	<b>Vladimir PROZOROVICH</b> , <i>Institute of General and Inorganic Chemistry of the National Academy of Sciences of Belarus</i> SYNTHESIS, STRUCTURE, AND ADSORPTION PROPERTIES OF ION-EXCHANGE MATERIALS BASED ON Li-Ti SPINEL <i>A. Ivanets, E. Bicheva, V. Prozorovich, T. Kouznetsova, E. Tulkova, Belarus</i>
<b>10:45-11:00</b>	<b>Prof. Ketevan KUPATADZE-DEMIRTAS</b> , <i>Ilia State University, Georgia</i> WATER AND SOCIETY IN GEORGIA FROM HISTORICAL ANGLE <i>K. Kupatadze-Demirtas, Georgia</i>
11:00-11:30	Break
<b>11:30-13:00</b> <b>Moderators:</b>	<u>Prof. Dr. Maria GONTA</u> , <i>Moldova State University, Moldova</i> <u>Prof. Constantin BULIMAGA</u> , <i>Institute of Ecology and Geography, Chisinau, Moldova</i>
<b>11:30-11:45</b>	<b>Corr. Mem., Prof. Andrei IVANETS</b> , <i>Institute of General and Inorganic Chemistry of the National Academy of Sciences of Belarus</i> CONTROLLED SYNTHESIS AND PROPERTIES OF MESOPOROUS Fe-N-C HETEROGENEOUS FENTON-LIKE CATALYSTS <i>A. Ivanets, V. Agabekov, V. Prozorovich, X. Su, Belarus, China</i>
<b>11:45-12:00</b>	<b>Prof. Constantin BULIMAGA</b> , <i>Institute of Ecology and Geography, Chisinau, Moldova</i> EVALUATION OF THE IMPACT OF THE BIOLOGICAL WASTEWATER TREATMENT PLANT IN FLORESTI ON THE WATER OF THE RĂUT RIVER <i>C. Bulimaga, Moldova</i>
<b>12:00-12:15</b>	<b>Larisa MOCANU</b> , <i>Moldova State University, Moldova</i> REMOVAL CEPHALEXIN FROM AQUEOUS SOLUTION BY PHOTODEGRADATION <i>L. Mocanu, M. Gonta, V. Porubin-Schimbator, Moldova</i>
<b>12:15-12:30</b>	<b>Aneta SVOZILÍKOVÁ KRAKOVSKÁ</b> , <i>Joint Institute for Nuclear Research, Dubna, Russia</i> PHYTOREMEDIATION OF Zn-LADEN WASTEWATER USING A CONSTRUCTED WETLAND TREATMENT SYSTEM <i>A. Svoziliková Krakovská, I. Zinicovscaia, N. Yushin, Russia</i>
<b>12:30-12:45</b>	<b>Dr. Camilla Di MARCANTONIO</b> , <i>'La Sapienza' University of Rome, Italy</i> ENVIRONMENTAL RISK ASSESSMENT ASSOCIATE TO ORGANIC MICROPOLLUTANTS IN THE FINAL EFFLUENT OF URBAN WASTEWATER TREATMENT PLANTS <i>C. Di Marcantonio, M. Barchiesi, T. Calchetti, G. Cecchini, A. Chiavola, A. Filippi, A. Frugis, S. Leoni, M. Spizzirri, M. R. Boni, Italy</i>
<b>12:45-13:00</b>	<b>Dr. Elena SHTAMM</b> , <i>"N.N. Semenov" Federal Research Center for Chemical Physics, Russian Academy of Science Russia</i> DETOXIFICATION AND DISINFECTION TECHNOLOGIES OF DANGEROUS CHEMICAL SUBSTANCES (DCS) USED IN INDUSTRY AND AGRICULTURE <i>E. Shtamm, V. Shvydkiy, I. Baykova, Gh. Duca, S. Travin, Russia</i>

13:00-14:00	Break
<b>14:00-16:00</b> <b>Moderators:</b>	<u>Dr. Oleksandr GONCHAROV</u> , <i>Ukrainian Scientific Center of Ecology of the Sea, Ukraine</i> <u>Dr. Nina TIMBALIUC</u> , <i>Institute of Chemistry, Moldova</i>
<b>14:00-14:15</b>	<b>Dr. Oleksandr GONCHAROV</b> , <i>Ukrainian Scientific Center of Ecology of the Sea, Odessa, Ukraine</i> MODIFICATION OF LOSS-ON-IGNITION METHOD FOR DETERMINATION OF ORGANIC MATTER IN HIGHLY CALCAREOUS SEDIMENTS <u>O. Goncharov</u> , <i>A. Alghunaim, Ukraine, Kuwait</i>
<b>14:15-14:30</b>	<b>Dr. Hatice Eser OKTEN</b> , <i>Izmir Institute of Technology, Turkey</i> BORON REMOVAL FROM GEOTHERMAL WATER USING A HYBRID MICROBIAL DESALINATION CELL-REVERSE OSMOSIS PROCESS WITH ENERGY PRODUCTION <i>A. Y. Goren, H. Eser Okten, A. Baba, N. Kabay, Turkey</i>
<b>14:30-14:45</b>	<b>Dr. Viacheslav SHVYDKIY</b> , <i>“N.M. Emanuel” Institute of Biochemical Physics, Russian Academy of Sciences Russia</i> NEW ASPECTS OF ASSESSING THE STATE OF NATURAL WATERS <u>V. Shvydkiy</u> , <i>S. Dolgov, A. Dubovik, A. Povkh, L. Shishkina, Russia</i>
<b>14:45-15:00</b>	<b>Dr. Raisa NASTAS</b> , <i>Institute of Chemistry, Moldova</i> ACTIVATED CARBON SUPPORTED METAL CATALYSTS FOR NITRITE AND SULPHIDE IONS OXIDATION IN WATER <i>R. Nastas, I. Ginsari, T. Lupascu, Moldova</i>
<b>15:00-15:15</b>	<b>Dr. Michael A. NAZARKOVSKY</b> , <i>Pontifical Catholic University of Rio de Janeiro, Brazil</i> STRUCTURAL-SORPTION DUALISM OF THE BIOCHAR PRODUCED OF SILVERGRASS (MISCANTHUS SP) IN ADSORPTION OF FULVIC ACIDS FROM WATER <u>M. Nazarkovsky</u> , <i>M. Konczak, B. Czech, A. Siatecka, P. Oleszczuk, Brazil, Poland</i>
<b>15:15-15:30</b>	<b>Darya PECHEONCKA</b> , <i>Institute of General and Inorganic Chemistry of the National Academy of Sciences of Belarus</i> SYNTHESIS AND PHYSICO-CHEMICAL PROPERTIES OF SELECTIVE LITHIUM IONS ADSORBENTS BASED ON Li-Mn SPINELS <i>A. Ivanets, D. Pecheoncka, V. Prozorovich, O. Razimuradov, Belarus</i>
<b>11:30-15:30</b>	<b>Poster Session: Presentations, Comments and Questions (On-line)</b>
<b>15:30</b>	<b>Closing Session: Conclusions and Recommendations (On-line)</b>
<b>11:30-15:30</b>	<b>POSTER SESSION</b>
<b>Moderators:</b>	<u>Dr. Lucian LUPASCU</u> , <i>Institute of Chemistry, Moldova</i> <u>Dr. Irina GINSARI</u> , <i>Institute of Chemistry, Moldova</i> <u>Svetlana DUCA</u> , <i>Academy of Economic Studies of Moldova</i>

<b>11:30-12:00</b>	<b>POSTER PRESENTATIONS – from EEC-B-PS-1 to EEC-B-PS-10</b>
<b>EEC-B-PS-1</b>	COMPARISON OF ADSORPTION PROPERTIES OF HYDROLYZED LIGNIN AND EXPANDED GRAPHITE IN RELATION TO BRILLIANT GREEN <b><u>S. Aliyeva</u>, R. Khankishiyeva, J. Ismayilova, R. Gahramanov, Azerbaijan</b>
<b>EEC-B-PS-2</b>	BIOLOGICAL OXIDATION OF HIGH-ENERGY COMPOUNDS FROM INDUSTRIAL WASTEWATER ON EXAMPLE OF NITRATED CELLULOSE <b><u>L. Avdeeva</u>, E. Saratovskikh, R. Yarullin, Russia</b>
<b>EEC-B-PS-3</b>	HYDROCHEMICAL STATE OF SOME FISH PONDS FROM THE REPUBLIC OF MOLDOVA AND ROMANIA <b><u>N. Bagrin</u>, N. Zubcov, L. Bilechi, P. Ciorba, L. D. Miron, Romania, Moldova</b>
<b>EEC-B-PS-4</b>	TECHNOLOGICAL ASPECTS OF WASTEWATER RECEPTION AND TREATMENT <b><u>M. Beiu</u>, E. Melentiev, Moldova</b>
<b>EEC-B-PS-5</b>	DYES DEPOLLUTION OF WATER USING PDO-ZNO PHOTOCATALYSTS <b><u>M. Belghiti</u>, A. Outzourhit, Morocco</b>
<b>EEC-B-PS-6</b>	PURIFICATION OF INDUSTRIAL WASTEWATER CONTAINING HEAVY METAL SALTS AND RADIOISOTOPES BY LOW-TEMPERATURE PLASMA ELECTROLYSIS <b><u>O. Bersirova</u>, V. Kublanovsky, A. Kravchenko, Ukraine</b>
<b>EEC-B-PS-7</b>	ESTIMATION OF THE REDOX STATE OF THE DNIESTER RIVER WATERS BY MONITORING THIOL COMPOUNDS <b><u>V. Blonschi</u>, Moldova</b>
<b>EEC-B-PS-8</b>	PECULIARITIES OF THE ACCUMULATION OF IRON AND COPPER IN THE DNIESTER RIVER <b><u>R. Borodaev</u>, Moldova</b>
<b>EEC-B-PS-9</b>	ASSESSMENT OF THE DEGREE OF POLLUTION OF SURFACE WATERS IN THE URBAN ECOSYSTEM BALTI WITH ORGANIC POLLUTIONS <b><u>C. Bulimaga</u>, P. Prodan, A. Tugulea, Moldova</b>
<b>EEC-B-PS-10</b>	CONTRIBUTIONS TO THE ENVIRONMENTAL IMPACT OF THE WASTEWATER TREATED AT BIOLOGICAL PURIFICATION PLANTS <b><u>C. Bulimaga</u>, P. Prodan, V. Bobeica, Moldova</b>
<b>12:00-12:30</b>	<b>POSTER PRESENTATIONS – from EEC-B-PS-11 to EEC-B-PS-20</b>
<b>EEC-B-PS-11</b>	STUDY ON THE IMPACT OF SOME LOCAL THIOLS ON THE WATER SELF-PURIFICATION CAPACITY OF DANCENI LAKE <b><u>E. Bunduchi</u>, R. Borodaev, A. Lis, Moldova</b>
<b>EEC-B-PS-12</b>	THE EVALUATION OF REDOX SELF-PURIFICATION PROCESSES OF SOME NATURAL WATERS <b><u>E. Bunduchi</u>, Gh. Duca, Moldova</b>
<b>EEC-B-PS-13</b>	DYNAMICS OF THE CONTENT AND FORMS OF MIGRATION OF CU AND ZN IN THE PRUT RIVER <b><u>P. Ciorba</u>, Moldova</b>
<b>EEC-B-PS-14</b>	THE INFLUENCE OF SOME CHEMICAL AND PHYSICO-CHEMICAL PARAMETERS ON THE GLUTATHIONE PHOTOLYSIS <b><u>M. Cisteacov</u>, Moldova</b>

<b>EEC-B-PS-15</b>	IMPROVING THE WATER RESOURCES MANAGEMENT ON THE SULINA CANAL (DANUBE DELTA, ROMANIA), BASED ON PREVIOUS DATA AND OWN RECENT INVESTIGATIONS ON THE WATER QUALITY <b><u>I. Cretescu</u>, Romania</b>
<b>EEC-B-PS-16</b>	THE INFLUENCE OF DRINKING WATER QUALITY FROM THE CITY OF FĂLEȘTI ON HUMAN POPULATION HEALTH <b><u>A. Crivoi</u>, <u>Iu. Bacalov</u>, <u>E.Chirița</u>, <u>A. Bîrsan</u>, <u>A. Druța</u>, Moldova</b>
<b>EEC-B-PS-17</b>	NUTRIENT LOADS ON THE ENVIRONMENT IN THE BALTI MUNICIPALITY <b><u>D. Drumea</u>, Moldova</b>
<b>EEC-B-PS-18</b>	SYSTEMIC APPROACH OF MANAGEMENT OF WATER SUPPLY AND SANITATION <b><u>S. Duca</u>, Moldova</b>
<b>EEC-B-PS-19</b>	PHYSICOCHEMICAL AND SORPTION CHARACTERISTICS OF LIGNIN-BASED MATERIALS <b><u>M. Galaburda</u>, <u>V. Bogatyrov</u>, <u>A. Bosacka</u>, <u>O. Oranska</u>, <u>V. Gun'ko</u>, <u>A. Derylo-Marczewska</u>, Poland</b>
<b>EEC-B-PS-20</b>	ESTIMATION OF WATER QUALITY IN GHIDIGHICI AND DĂNCENI LAKES IN ORDER TO USE THEM FOR IRRIGATION <b><u>V. Gladchi</u>, <u>V. Blonschi</u>, Moldova</b>
<b>12:30-13:00</b>	<b>POSTER PRESENTATIONS – from EEC-B-PS-21 to EEC-B-PS-30</b>
<b>EEC-B-PS-21</b>	THE INFLUENCE OF THE RĂUT RIVER ON THE MINERALIZATION OF THE NISTRU RIVER WATERS (PERIOD OF YEARS 2015-2020) <b><u>V. Gladchi</u>, Moldova</b>
<b>EEC-B-PS-22</b>	HYDROCHEMISTRY OF THE GHIDIGHICI ACCUMULATION LAKE (YEARS 2015-2020) <b><u>V. Gladchi</u>, <u>V. Blonschi</u>, Moldova</b>
<b>EEC-B-PS-23</b>	PLANKTONIC ALGAE OF THE RIVER RĂUT WITHIN THE LIMITS OF THE BĂLȚI URBAN ECOSYSTEM <b><u>N. Grabco</u>, <u>C. Certan</u>, <u>C. Bulimaga</u>, <u>A. Portarescu</u>, Moldova</b>
<b>EEC-B-PS-24</b>	THE STRUCTURING OF THE CATIONIC POLYMER ZETAG 9014 WITH THE CHANGES OF THE pH <b><u>S. Hayrapetyan</u>, <u>L. Margaryan</u>, <u>L. Banyan</u>, <u>G. Pirumyan</u>, Armenia</b>
<b>EEC-B-PS-25</b>	CELLULOSE CONTAINING COMPOSITE SORBENTS TO REMOVE HEAVY METALS FROM WASTEWATER <b><u>S. Hayrapetyan</u>, <u>M. Hayrapetyan</u>, <u>L. Margaryan</u>, <u>L. Banyan</u>, <u>G. Pirumyan</u>, Armenia</b>
<b>EEC-B-PS-26</b>	ADSORPTION PROPERTIES OF GEORGIAN PERLITE IN THE PROCESS OF WATER PURIFICATION FROM Cu (II) AND Fe (II) IONS <b><u>D. Ioseliani</u>, <u>I. Mikadze</u>, <u>G. Balarjishvili</u>, <u>N. Kalabegashvili</u>, <u>L. Samkharadze</u>, <u>N. Nonikashvili</u>, Georgia</b>
<b>EEC-B-PS-27</b>	SORPTION OF CEFTRIAXONE FROM WASTEWATER BY NATURAL ZEOLITES <b><u>L. Eprikashvili</u>, <u>T. Kordzakhia</u>, <u>M. Zautashvili</u>, <u>N. Pirtskhalava</u>, <u>M. Dzagania</u>, <u>I. Rubashvili</u>, Georgia</b>

<b>EEC-B-PS-28</b>	IDENTIFICATION AND MEASUREMENTS OF ORGANOCHLORINE COMPOUNDS IN DANUBE DELTA <b>C. Itcus, C. Coman, L. Popa, D. Florea, M. Sidoroff, I. Tusa, Romania</b>
<b>EEC-B-PS-29</b>	POLLUTION OF LAKE LADOGA ECOSYSTEMS BY ORGANOMETALLIC COMPONENTS OF OILS AND PETROLEUM PRODUCTS <b>S. Ivakhnyuk, A. Garabadzhiu, T. Mametnabiev, I. Yankovsky, Russia</b>
<b>EEC-B-PS-30</b>	TREATMENT OF AQUEOUS SOLUTIONS CONTAINING HEAVY METAL IONS IN PLASMA SYSTEMS <b>A. Izvekova, V. Rybkin, K. Smirnova, Russia</b>
<b>14:00-14:30</b>	<b>POSTER PRESENTATIONS – from EEC-B-PS-31 to EEC-B-PS-40</b>
<b>EEC-B-PS-31</b>	THE QUALITY OF TAP AND SPRING WATER BEFORE AND AFTER TREATMENT WITH THE USE OF HOUSEHOLD EQUIPMENT <b>A. Kalenova, S. Byumova, A. Bubnov, Russia</b>
<b>EEC-B-PS-32</b>	MODELING AND MONITORING OF EURASIAN NATURAL MINERAL WATERS <b>E. Kornilova, N. Kornilov, Russia</b>
<b>EEC-B-PS-33</b>	USE OF BY LOW-TEMPERATURE PLASMA ELECTROLYSIS FOR WATER PURIFICATION FROM BACTERIA AND VIRUSES <b>V. Kublanovsky, O. Bersirova, Ukraine</b>
<b>EEC-B-PS-34</b>	SURFACE WATER STUDY IN SEVERAL VILLAGES OF KAKHETI REGION OF GEORGIA <b>K. Kupatadze-Demirtas, Georgia</b>
<b>EEC-B-PS-35</b>	INFLUENCE OF H <sub>2</sub> O <sub>2</sub> ON THIOUREA PHOTOCHEMICAL TRANSFORMATIONS IN THE PRESENCE OF Cu(II) AND Fe(III) IONS IN AQUATIC SYSTEMS <b>A. Lis, V. Gladchi, Gh. Duca, Moldova</b>
<b>EEC-B-PS-36</b>	APPLICATION OF CNT-COOH/MnO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> NANOCOMPOSITE FOR THE REMOVAL OF CYMOXANIL FROM AQUEOUS SOLUTION <b>I. Lung, M.-L. Soran, A. Stegarescu, O. Opris, Romania</b>
<b>EEC-B-PS-37</b>	ADSORPTION OF BACILLUS CEREUS, BACILLUS SUBTILIS AND PSEUDOMONAS FLUORESCENS BACTERIA FROM ACID WATER SOLUTIONS ON ACTIVATED CARBON <b>L. Lupascu, O. Petuhov, T. Lupascu, Moldova</b>
<b>EEC-B-PS-38</b>	EVALUATING THE SUITABILITY OF GROUNDWATER FOR DRINKING PURPOSES FROM CAUSANI REGION OF THE REPUBLIC OF MOLDOVA <b>T. Mitina, N. Bondarenco, D. Grigoras, T. Lupascu, Moldova</b>
<b>EEC-B-PS-39</b>	QUALITY RATING OF GROUNDWATER FROM ARTESIAN WELLS AND WELLS FROM DIFFERENT REGIONS OF MOLDOVA <b>T. Mitina, N. Bondarenco, D. Grigoras, T. Lupascu, Moldova</b>
<b>EEC-B-PS-40</b>	APPLICATION OF CHITOSANE MODIFIED (O-OXIDATION), IN ADSORPTION OF ORANGE 7 COLORANT <b>A. Mourak, M. Hajjaji, A. Alagui, Morocco</b>
<b>14:30-15:30</b>	<b>POSTER PRESENTATIONS – from EEC-B-PS-41 to EEC-B-PS-52</b>
<b>EEC-B-PS-41</b>	RESEARCH OF POLLUTION LEVEL OF LAKE BINAGADI <b>I. Mustafaev, S. Hajiyeva, T. Aliyeva, A. Samadova, N. Gasanova</b>

<b>EEC-B-PS-42</b>	ASSESSMENT OF THE HISTORY OF POP POLLUTION IN LAKE IACOB, DANUBE DELTA, BASED ON RADIONUCLIDE-DATED SEDIMENTS <b><u>V. A. Pănescu</u>, A. Enel, R. Begy, M. S. Beldean-Galea, Romania, France</b>
<b>EEC-B-PS-43</b>	QUANTIFICATION OF ANTIBIOTICS IN INFLUENT AND EFFLUENT WASTEWATER TREATMENTS PLANT AND ANTIBIOTIC RESISTANCE PROFILE OF ISOLATED BACTERIA <b><u>S. I. Polianciuc</u>, A. Ciorîță, M.-L. Soran, I. Lung, A. E. Gurzău, F. Loghin, Romania</b>
<b>EEC-B-PS-44</b>	PHOTOCATALYTIC OXIDATION OF THE ANIONIC SURFACTANT SODIUM 2-ETHYLHEXYL SULFATE IN UV/TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> AND UV/Fe <sup>2+</sup> /H <sub>2</sub> O <sub>2</sub> SYSTEMS <b><u>V. Porubin-Schimbător</u>, M. Gonța, L. Mocanu, Moldova</b>
<b>EEC-B-PS-45</b>	IMPACT OF DETERGENTS ON THE NITRIFICATION PROCESS OF AMMONIUM IONS IN NATURAL WATERS <b><u>M. Sandu</u>, A. Tarita, E. Moșanu, G. Dragalina, Moldova</b>
<b>EEC-B-PS-46</b>	UTILIZATION OF NANOMATERIALS BASED ON CARBON NANOTUBES FOR TARTRAZINE REMOVAL FROM WATER. ISOTHERMS AND KINETIC STUDIES <b><u>M.-L. Soran</u>, I. Lung, A. Stegarescu, O. Opris, Romania</b>
<b>EEC-B-PS-47</b>	RESEARCH ON THE COMPOSITION AND PROPERTIES OF UNDERWATER SEDIMENTS OF THE GHIDIGHICI LAKE <b><u>P. Spataru</u>, A. Maftuleac, A. Visnevschi, I. Povar, N. Costriucova, Moldova</b>
<b>EEC-B-PS-48</b>	WASTEWATER TREATMENT OF EFFLUENTS CONTAINING ERIOCHROME BLACK T USING AN UV REACTOR. EXPERIMENTAL, MODELLING AND OPTIMIZATION <b><u>G. D. Suditu</u>, <u>E. N. Drăgoi</u>, V. Dafinescu, L. Pintilie, M. T. Nechita, Romania</b>
<b>EEC-B-PS-49</b>	ENVIRONMENTAL ASSESSMENT OF WATER QUALITY IN THE WATER SUPPLY SOURCE IN IVANOVO <b><u>O. Sulaeva</u>, R. Sitanov, T. Izvekova, A. Gushchin, Russia</b>
<b>EEC-B-PS-50</b>	ADSORPTION OF PYRIDOXINE FROM AQUEOUS SOLUTIONS USING CARBON ADORBENTS <b><u>N. Timbaliuc</u>, T. Lupascu, Moldova</b>
<b>EEC-B-PS-51</b>	ENVIRONMENTAL ASSESSMENT AND POLUTION OF ZABRAT LAKE OF THE ABSHERON PENINSULA <b><u>I. Mustafaev</u>, S. Hajiyeva, T. Aliyeva, A. Samadova, Azerbaijan</b>
<b>EEC-B-PS-52</b>	ENVIRONMENTAL ASSESSMENT OF NATURAL WATER SOURCES IN THE VILLAGE OF GUZANLI, AGHDAM REGION <b><u>S. Hajiyeva</u>, T. <u>Aliyeva</u>, A. Samadova, B. Kulieva</b>



## The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

### March 4, 2022 - PROGRAM

#### Session C

### CLIMATE CHANGE AND ATMOSPHERIC CHEMISTRY

*Institute of Ecology and Geography,  
 "Mircea Ciuhrii" Conference Room Nr.253, 2<sup>nd</sup> Floor,  
 1 Academiei Str., Chisinau, Republic of Moldova*

EEC-2022 PRESENTATIONS & ACTIVITIES	
9:00-9:30	<b>Participants' Registration</b>
<b>9:30-11:00</b> <b>Moderators:</b>	<u>Dr. Vasile STEGĂRESCU</u> , <i>Institute of Ecology and Geography, Moldova</i> <u>Dr. Inga ZINICOVSCAIA</u> , <i>Joint Institute for Nuclear Research, Russia</i>
<b>9:30-9:45</b>	<b>Acad., Prof. Vladislav KHOMICH</b> , <i>Institute for Electrophysics and Electric Power of Russian Academy of Sciences, Russia</i> ON THE TRANSITION TO GREEN AVIATION <u>V. Khomich</u> , <i>Russia</i>
<b>9:45-10:00</b>	<b>Dr. Oleg BOGDEVICI</b> , <i>Institute of Chemistry, Moldova</i> SPATIAL MAPPING OF NATIONAL EMISSIONS OF SHORT-LIVED CLIMATE POLLUTANTS IN REPUBLIC OF MOLDOVA <u>O. Bogdevich</u> , <i>E. Bicova, S. Drucioc, E. Culighin, Moldova</i>
<b>10:00-10:15</b>	<b>Dr. Serik BURKITBAYEV</b> , <i>Technology Holding Institute, LLP, Kazakhstan</i> THE SAMGAU PROJECT – THE GREEN TECHNOLOGY TO DELIVER THE CLEAN ATMOSPHERE (AIR) BY THE MEANS OF UNIQUE FEATURES OF EVERGREEN TIAN-SHAN SPRUCE <u>S. Burkitbayev, M. Seitenov</u> , <i>Kazakhstan</i>
<b>10:15-10:45</b>	<b>Dr. Inga ZINICOVSCAIA</b> , <i>Joint Institute for Nuclear Research, Russia</i> NUCLEAR ANALYTICAL TECHNIQUES IN ECOLOGICAL STUDIES: MOLDOVA CASE STUDY <u>I. Zinicovscaia</u> , <i>Russia</i>
<b>10:45-11:00</b>	<b>Dr. Robert POPEK</b> , <i>Section of Basic Research in Horticulture; Institute of Horticultural Sciences; Warsaw University of Life Sciences – SGGW, Poland</i> PRESENT AND FUTURE TRENDS IN PHYTOREMEDIATION OF URBAN PARTICULATE MATTER POLLUTION BY ROADSIDE VEGETATION <u>R. Popek, D. Deluga, K. Mikowska, A. Przybysz</u> , <i>Poland</i>
<b>11:00-11:15</b>	<b>Yulia MALOVA</b> , <i>Ivanovo State University of Chemistry and Technology, Russia</i> THE RISK ASSESSMENT TO HUMANS AND THE BIOSPHERE FROM AIR POLLUTION NEAR SPRINGS <u>Yu. Malova, S. Byumova, A. Bubnov</u> , <i>Russia</i>

11:15-11:30	Break
<b>11:30-13:00</b> <b>Moderators:</b>	<u>Dr. Vasile STEGĂRESCU</u> , <i>Institute of Ecology and Geography, Moldova</i> <u>Dr. Ala DONICA</u> , <i>Institute of Ecology and Geography, Moldova</i>
<b>11:30-11:45</b>	<b>Omari CHALIGAVA</b> , <i>Joint Institute for Nuclear Research, Russia</i> MOSS BIOMONITORING OF AIR POLLUTION IN GEORGIA <u>O. Chaligava</u> , <u>K.Vergel</u> , <u>N. Yushin</u> , <u>M. Frontasyeva</u> , <i>Russia</i>
<b>11:45-12:00</b>	<b>Olga CRIVOVA</b> , <i>Institute of Ecology and Geography, Moldova</i> DINAMICS OF CLIMATE CHANGES IN REPUBLIC OF MOLDOVA ACCORDING TO KOPPEN-TREWARTHA CLIMATE CLASSIFICATION <u>O. Crivova</u> , <i>Moldova</i>
<b>12:00-12:15</b>	<b>Dr. Konstantin VERGEL</b> , <i>Joint Institute for Nuclear Research, Russia</i> ASSESSMENT OF ATMOSPHERIC DEPOSITION IN CENTRAL RUSSIA <u>K. Vergel</u> , <u>I. Zinicovscaia</u> , <u>N. Yushin</u> , <u>S. Gundorina</u> , <i>Russia</i>
<b>12:15-12:30</b>	<b>Dr. Vladislav SVOZILIK</b> , <i>Joint Institute for Nuclear Research, Russia</i> AIR POLLUTION MODELING USING REGRESSION MODELS <u>V. Svozilik</u> , <u>J.Bitta</u> , <i>Russia, Czech Republic</i>
<b>12:30-12:45</b>	<b>Dr. Valeriu CAZAC</b> , <i>Moldova State University, Moldova</i> THE PROBLEM OF ACID RAIN AND TRANSBOUNDARY AIR POLLUTION <u>V. Cazac</u> , <i>Moldova</i>
<b>12:45-13:00</b>	<b>Aliona BOTNARI</b> , <i>Institute of Ecology and Geography, Moldova</i> IMPACT OF CLIMATE CHANGE ON THE DATE OF DANGEROUS FROSTS MANIFESTATION ON THE TERRITORY OF THE REPUBLIC OF MOLDOVA <u>A. Botnari</u> , <i>Moldova</i>
13:00-14:00	Break
<b>15:30</b>	<b>Closing Session: Conclusions and Recommendations (On-line)</b>
<b>14:00-15:00</b>	<b>POSTER SESSION (On-line)</b>
<b>Moderators:</b>	<u>Dr. Vasile STEGĂRESCU</u> , <i>Institute of Ecology and Geography, Moldova</i> <u>Dr. Ala DONICA</u> , <i>Institute of Ecology and Geography, Moldova</i>
EEC-C-PS-1	INVESTIGATION OF TOXIC COMPOUNDS IN THE AEROSOL OF TOBACCO HEATING SYSTEM <b>E. Gnuchikh</b> , <b>T. Perezhogina</b> , <b>N. Pankov</b> , <b>A. Lushnikova</b> , <i>Russia</i>
EEC-C-PS-2	ABSENCE OF SOLID PARTICLES GENERATED FROM THERMAL PROCESSES IN THE AEROSOL FROM AN ELECTRICALLY HEATED TOBACCO PRODUCT <b>T. Kärkelä</b> , <b>J.-Ch. Ebinger</b> , <b>U. Tapper</b> , <b>O. Robyr</b> , <b>T. Jalanti</b> , <i>Finland</i>

EEC-C-PS-3	HYDROTHERMAL REGIME DURING THE WARM PERIOD OF THE YEAR ON THE REPUBLIC OF MOLDOVA TERRITORY. <b><u>Mândru Galina, Viorica Țurcanu, Moldova</u></b>
EEC-C-PS-4	ASSESSING CLIMATE CHANGE IMPACT ON WATER QUALITY OF THE RIVER VOGHJI <b><u>L. Margaryan, A. Khachatryan, S. Hayrapetyan, G. Simonyan, Armenia</u></b>
EEC-C-PS-5	EXPUNEREA TERITORIULUI REPUBLICII MOLDOVA CĂTRE HAZARDELE METEO-CLIMATICE SEMNIFICATIVE DIN PERIOADA CALDA A ANULUI <b><u>M. Nedelcov, V. Țurcanu, G. Mîndru, Moldova</u></b>
EEC-C-PS-6	INVESTIGATION OF INFLUENCE OF ENVIRONMENTAL POLLUTION ON TREES LEAF PROPRIETIES OF BALTI URBAN ECOSYSTEM (REPUBLIC OF MOLDOVA) <b><u>A. Tugulea, Moldova</u></b>

**The 7th International Conference**  
**ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2022**  
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**Session D**

**FOOD, SOIL AND WASTE CHEMISTRY**

*Technical University of Moldova*

*Str. Studentilor 9/9, Building 5, Conference Hall - Of.120, Chisinau, Republic of Moldova*

<b>EEC-2022 PRESENTATIONS &amp; ACTIVITIES</b>	
9:00-9:30	<b>Participants' Registration</b>
9:30-9:40	<b>Participants' Welcome</b>
<b>9:40-11:00</b> <b>Moderators:</b>	<u>Prof. Aculina ARICU</u> , <i>Institute of Chemistry, Moldova</i> <u>Prof. Iurie SUBOTIN</u> , <i>Technical University of Moldova</i>
<b>9:40-9:55</b>	<b>Dr. Hab. Aculina ARICU</b> , <i>Institute of Chemistry, Moldova</i> SYNTHESIS OF BIOLOGICALLY ACTIVE TERPENOIDS BY VALORISATION OF SOME VEGETABLE WASTES <u>A. Aricu</u> , <u>A. Ciocirlan</u> , <i>Moldova</i>
<b>9:55-10:10</b>	<b>Prof., Dr. Claudia CIMPOIU</b> , <i>"Babes-Bolyai" University, Chemistry and Chemical Engineering Faculty Cluj-Napoca, Romania</i> FINGERPRINTING AND ANTIOXIDANT ACTIVITY EVALUATION OF SOME RED AND WHITE ROMANIAN WINES <u>V. Danciu</u> , <u>A. Hosu</u> , <u>C. Cimpoi</u> , <i>Romania</i>
<b>10:10-10:25</b>	<b>Dr. Angela ANTONUCCI</b> , <i>Università degli Studi di Roma "La Sapienza", Italia</i> BEECHWOOD BIOCHAR FOR THE IMMOBILIZATION OF HEAVY METALS IN CONTAMINATED SOILS: COLUMN TESTS AND SIMULATION MODEL <u>A. Antonucci</u> , <u>M. A. Decima</u> , <u>S. Marzeddu</u> , <u>M. R. Boni</u> , <i>Italia</i>
<b>10:25-10:40</b>	<b>Gabriela PETCU</b> , <i>Institute of Physical Chemistry, Bucharest, Romania</i> ANTIBIOTIC POLLUTANTS DEGRADATION WITH PHOTOCATALYSTS BASED ON MODIFIED TiO <sub>2</sub> . EFFECTS OF DOPANT, SURFACE AREA AND POROUS STRUCTURE <u>G. Petcu</u> , <u>D. Negoescu</u> , <u>I. Atkinson</u> , <u>A. Baran</u> , <u>E. Anghel</u> , <u>D. Culita</u> , <u>V. Parvulescu</u>
<b>10:40-10:55</b>	<b>Dr. Serghei POGREBNOI</b> , <i>Institute of Chemistry, Moldova</i> PROPOLIS EXTRACTS FROM CENTRAL ZONE OF MOLDOVA AS AN ACCESSIBLE AND ALTERNATIVE THERAPEUTIC RAW MATERIAL <u>S. Pogrebnoi</u> , <u>N. Eremia</u> , <u>D. Bilan</u> , <u>L. Lupaşcu</u> , <u>N. Bolocan</u> , <u>Gh. Duca</u> , <u>S. Armaşu</u> , <u>D. Tertea</u> , <u>V. Cebanu</u> , <u>S. Tincu</u> , <u>A. Znagovan</u> , <u>I. Neicovcena</u> , <u>O. Coşelea</u> , <u>V. Slanina</u> , <u>F. Z. Macaev</u> , <i>Moldova</i>

<b>10:55-11:10</b>	<b>Dr. Laurenția ARTIOMOV</b> , <i>Institute of Microbiology and Biotechnology, Moldova</i> THE IMPACT OF SOIL POLLUTION WITH ANTIBIOTICS ON SOIL MICROORGANISMS AND FOOD SAFETY <i>L. Artiomov, Moldova</i>
11:10-11:40	Break
<b>11:40-13:00</b> <b>Moderators:</b>	<u>Prof. Rodica STURZA</u> , <i>Tehcnical Univervsity of Moldova</i> <u>PhD. Natalia VLADEI</u> , <i>Tehcnical University of Moldova</i>
<b>11:40-11:55</b>	<b>Dr. Natalia VLADEI</b> , <i>Technical University of Moldova, Moldova</i> ASSESSMENT THE POTENTIAL OF BIOLOGICALLY ACTIVE SUBSTANCES OF YOUNG RED WINE PRODUCED FROM RARĂ NEAGRĂ (LOCAL GRAPE VARIETY) <i>N. Vladei-Furtuna, E. Covaci, Moldova</i>
<b>10:55-12:10</b>	<b>Daniela COJOCARI</b> , <i>"Nicolae Testemiteanu" State University of Medicine and Pharmacy of the Republic of Moldova, Moldova</i> MICROBIOSTATIC EFFECT OF BIOACTIVE COMPOUNDS FROM AGRO-FOOD INDUSTRIAL WASTES ON MICROORGANISMS CAUSING FOOD SPOILAGE <i>D. Cojocari, R. Sturza, A. Ghendov Mosanu, Moldova</i>
<b>12:10-12:25</b>	<b>Dr. Carmen ROBA</b> , <i>Babes-Bolyai University, Cluj-Napoca, Romania</i> HEAVY METALS CONCENTRATION IN DIFFERENT SPECIES OF TREES, SHRUBS AND THE ASSOCIATED SOILS FROM URBAN AREA OF CLUJ-NAPOCA, ROMANIA <i>N. Brișan, C. Roba, R. Bălc, S. Ulinici, V.-I. Oltean, F. Boar, Romania</i>
<b>12:25-12:40</b>	<b>Ludmila CIUGUREANU</b> , <i>State Agrarian University of Moldova, Moldova</i> THE NEED FOR SUSTAINABLE USE OF AGRICULTURAL LAND <i>L. Ciugureanu, Moldova</i>
<b>12:40-12:55</b>	<b>Tatiana GUTSUL</b> , <i>"D. Ghitu" Institute of Electronic Engineering and Nanotechnologies, Moldova</i> THE INTERACTION OF RHODOCOCCUS RHODOCHROUS CNMN-Ac-05 WITH CoFe <sub>2</sub> O <sub>4</sub> /PEG NANOPARTICLES ANALYSED BY METHOD OF CONFOCAL LASER SCANNING MICROSCOPY <i>T. Gutsul, A. Vinokurov, I. Rastimesina, O. Postolachi, A. Sidorenko, Moldova</i>
<b>12:55-13:10</b>	<b>Dr. Leila JAPARIDZE</b> , <i>"Petre Melikishvili" Institute of Physical and Organic Chemistry of "Ivane Javakhishvili" Tbilisi State University Georgia</i> ENVIRONMENTALLY FRIENDLY THERAPEUTIC AND PROPHYLACTIC MEANS, AGAINST PLANT PATHOGENS <i>L. Japaridze, T. Gabelia, E. Salukvadze, N. Shalvashvili, N. Osipova, T. Kvernadze, Georgia</i>
13:10-14:00	Break

<b>14:00-16:00</b>	<u>Dr. Hab. Aliona GHEDOV-MOSANU</u> , <i>Tehnicul University of Moldova</i>
<b>Moderators:</b>	<u>Dr. Angela GUREV</u> , <i>Tehnicul University of Moldova</i>
<b>14:00-14:15</b>	<b>Dr. Oleg BOGDEVICI</b> , <i>Institute of Chemistry, Moldova</i> REVIEW OF THE MANAGEMENT OF POPs CONTAMINATED SITES IN REPUBLIC OF MOLDOVA <i>O. Bogdevich, E. Culighin, E. Nicolau, O. Cadociniov, M. Grigoras, Moldova</i>
<b>14.15-14.30</b>	<b>Gal SHRAGA</b> , <i>Shamoon College of Engineering, Be'er Sheva, Israel</i> STUDY FOR DEVELOPING DEVICE TO PROCESS HUMAN FOOD WASTE TO ANIMAL NUTRITION <i>G. Shraga, O. Saphier, M. Saphier, Israel</i>
<b>14.30-14.45</b>	<b>Hijran RAFIYEVA</b> , <i>Baku State University, Azerbaijan</i> DETERMINATION OF HEAVY METALS IN SOIL <i>G. Kerimli, H. Rafiyeva, A. Samadova, Azerbaijan</i>
<b>15: 30</b>	<b>Closing Session: Conclusions and Recommendations (On-line)</b>
<b>10:00-15:30</b>	<b>POSTER SESSION (On-line)</b>
<b>Moderators:</b>	<u>Assoc. Prof. Ecaterina COVACI</u> , <i>Tehnicul University of Moldova</i> <u>Assoc. Prof. Dan ZGARDAN</u> , <i>Tehnicul University of Moldova</i>
<b>10:00-11:00</b>	<b>POSTER PRESENTATIONS – from EEC-D-PS1 to EEC-D-PS10</b>
<b>EEC-D-PS1.</b>	NEW ECO-FRIENDLY MATERIALS FOR VARIOUS FUNCTIONAL PURPOSES <b>V. Agabekov, A. Rogachev, E. Karpinchik, V. Tarasevich, Belarus</b>
<b>EEC-D-PS2.</b>	SMALL ANGLE SCATTERING STUDY OF POLYSACCHARIDES WITH ANTIOXIDANT ACTIVITY <b>L. Anghel, A. Radulescu, R. V. Erhan, Moldova</b>
<b>EEC-D-PS3.</b>	SUNFLOWER CROP AND AGRO-ECOLOGICAL APPROACH TO SOIL CONSERVATION AND REDUCING CHEMICAL INPUTS <b>I. Burcovschi, Moldova</b>
<b>EEC-D-PS4.</b>	DYNAMICS OF WHITE WINE OXIDABILITY DEPENDING ON TECHNOLOGICAL FACTORS: SULFUR DIOXIDE, IRON AND COPPER IONS <b>E. Covaci, R. Sturza, R. Druta, I. Subotin, Moldova</b>
<b>EEC-D-PS5.</b>	NEW ADDITIVES OF BIOACTIVE SUBSTANCES IN THE BIOCHEMICAL DIGESTION PROCESSES <b>O. Covaliova, R. Sturza, E. Covaci, L. Romanciuc, C. Tascu, Moldova</b>
<b>EEC-D-PS6.</b>	THE ACIDIFIER FROM UNRIPE APPLES - SOURCE OF NATURAL ACIDITY <b>D. Crucirescu, Moldova</b>
<b>EEC-D-PS7.</b>	CHANGES OVER TIME IN PERSISTENT ORGANIC POLLUTANTS (POP) CONCENTRATIONS IN SOILS IN LOWER DNIESTER REGION, REPUBLIC OF MOLDOVA <b>E. Culighin, Moldova</b>

<b>EEC-D-PS8.</b>	COMMERCIAL BIOCHAR AS ADSORBENT FOR REMOVAL OF HEAVY METALS AND ORGANIC COMPOUNDS <b><u>M. A. Decima</u>, S. Marzeddu, A. Chiavola, M. R. Boni, Italy</b>
<b>EEC-D-PS9.</b>	STATE-OF-ART OF FORMALDEHYDE DETERMINATION BY SENSORS IN ENVIRONMENTAL AND FOOD MATRICES <b>L. Fappiano, I. Notardonato, F. Carriera, <u>P. Avino</u>, Italy</b>
<b>EEC-D-PS10.</b>	ECOLOGICAL APPRECIATION OF TYPICAL CHERNOZEM <b><u>N. Frunze</u>, Moldova</b>
<b>11:00-12:00</b>	<b>POSTER PRESENTATIONS – from EEC-D-PS11 to EEC-D-PS20</b>
<b>EEC-D-PS11.</b>	CHEMICAL COMPOSITION OF ORGANIC FERTILIZERS OBTAINED FROM POULTRY WASTE BY DIFFERENT METHODS <b>F. Gaidarji, <u>N. Sucman</u>, Moldova</b>
<b>EEC-D-PS12.</b>	SYNTHESIS AND STRUCTURE OF TANNIN/BENTONITE-DERIVED BIOCHAR <b><u>M. Galaburda</u>, V. Bogatyrov, D. Sternik, T. Lupascu, A. Deryło-Marczewska, Ukraine</b>
<b>EEC-D-PS13.</b>	THE COMPOSITION OF THE AROMATIC COMPLEX OF WINES FROM LOCAL GRAPE VARIETIES LEGENDA <b><u>L. Gherdelescu</u>, A. Balanuță, Moldova</b>
<b>EEC-D-PS14.</b>	INFLUENCE OF VEGETABLE POWDERS ON THE RHEOLOGICAL PROPERTIES OF PASTA DOUGH <b><u>A. Ghendov-Moșanu</u>, G. Codina, Moldova, Romania</b>
<b>EEC-D-PS15.</b>	INFLUENCE OF PULSATING ELECTRIC FIELD (PEF) PRE-TREATMENT ON THE EXTRACTION EFFICIENCY OF PHENOLIC COMPOUNDS FROM GRAPE MARC <b>A. Ghendov-Moșanu, <u>R. Sturza</u>, A. Patras, Moldova, Romania</b>
<b>EEC-D-PS16.</b>	PROFILE OF LIPOPHILIC AND HYDROPHILIC EXTRACTS FROM FETEASCA NEAGRĂ BY-PRODUCTS <b><u>A. Gurev</u>, V. Dragancea, S. Haritonov, B. Găină, Moldova</b>
<b>EEC-D-PS17.</b>	INVESTIGATION OF THE CONTENT OF MINERALS IN SAMPLES OF VOLCANIC MUD BY X-RAY DIFRACTOMETRY <b>S. Hajiyeva, <u>T. Alieva</u>, A. Samadova, N. Shakhnazarova, Azerbaijan</b>
<b>EEC-D-PS18.</b>	PHYSICO-CHEMICAL PROPERTIES OF VEGETABLE OILS FROM LOCAL TRADE <b><u>S. Haritonov</u>, A. Gurev, V. Dragancea, Moldova</b>
<b>EEC-D-PS19.</b>	MACRONUTRIENT IN CHERNOZEM FROM LONG-TERM AGROEXPERIMENTS: VARIATION AND PATTERN <b><u>D. Indoitu</u>, Moldova</b>
<b>EEC-D-PS20.</b>	THE QUALITY OF SOIL AND VEGETATION COVER NEAR THE OUTLET OF SPRING WATERS BASED ON BIOINDICATION DATA <b><u>A. Kolotilova</u>, A. Bubnov, S. Buymova, Russia</b>
<b>14:00-15:00</b>	<b>POSTER PRESENTATIONS – from EEC-D-PS21 to EEC-D-PS30</b>
<b>EEC-D-PS21.</b>	ENVIRONMENTALLY FRIENDLY PYRETHROID DRUG AGAINST PLANT PESTS <b>O. Lomtadze, <u>K. Ebralidze</u>, N. Shalvashvili, Georgia</b>

<b>EEC-D-PS22.</b>	THE PROTECTIVE EFFECT OF VINYL TRIAZOLE DERIVATIVES IN SOME FUNGAL DISEASES IN WHEAT <b>L. Lupascu, G. Lupascu, S. Gavzer, N. Cristea, E. Stangaci, S. Pogrebnoi, F. Macaev, Moldova</b>
<b>EEC-D-PS23.</b>	CRITICAL REVIEW OF THE ANALYTICAL METHODS BASED ON THE HPLC-ELECTROCHEMICAL SENSOR COUPLING <b>M. Maio, C. Di Fiore, F. Carriera, I. Notardonato, P. Avino, Italy</b>
<b>EEC-D-PS24.</b>	MEDICAL WASTE PROCESSING IN THE REPUBLIC OF MOLDOVA <b>A. Mereuta, Moldova</b>
<b>EEC-D-PS25.</b>	IDENTIFICATION OF PRIORITY POLYCYCLIC AROMATIC HYDROCARBONS IN ROADSIDE DUST (IVANOVO CITY) <b>P. Mesyanceva, T. Izvekova, N. Kobeleva, A. Gushchin, A. Loginova, Russia</b>
<b>EEC-D-PS26.</b>	SYNTHESIS AND APPLICATIONS OF A NEW CATALYST BASED ON SILVER NANOPARTICLES INCORPORATED ON CATIONIC CLAY <b>D. C. Mirila, D. Raducanu, N. Platon, M. A. Didi, D. I. Nistor, A. Azzouz, Romania</b>
<b>EEC-D-PS27.</b>	THE USE OF SLUDGE RESULTING FROM URBAN WASTEWATER TREATMENT IN AGRICULTURE <b>V. Mogildea, Moldova</b>
<b>EEC-D-PS28.</b>	INFLUENCE OF NATURAL ZEOLITES OF GEORGIA ON THE MIGRATION OF TOXIC ELEMENTS IN SOIL-PLANT SYSTEM <b>N. Osipova, T. Kvernadze, N. Burkiashvili, L. Japaridze, T. Gabelia, E. Salukvadze, Georgia</b>
<b>EEC-D-PS29.</b>	MICROBIOLOGICAL CHARACTERISTIC OF SOIL FOR THE BIOREMEDIATION OF POPS CONTAMINATED SITES <b>I. Rastimesina, O. Postolachi, O. Bogdevich, V. Josan, E. Nicolau, E. Culighin, Moldova</b>
<b>EEC-D-PS30.</b>	SYNTHESIS OF POLYMER SYSTEMS FROM N-VINYLPYRROLIDONE WITH HYDROXYMETHYL DERIVATIVES OF TRANSITION METAL PHTHALOCYANINES FOR PHOTODYNAMIC THERAPY <b>S. Robu, I. Gutu, V. Kravcescu, T. Potlog, P. Tiulianu, I. Lungu, Moldova</b>
<b>EEC-D-PS31.</b>	PAULOWNIA FOR BIOREMEDIATION OF URBANIZED SOILS <b>M. Romanova, J. Shimova, Russia</b>
<b>15:00-16:00</b>	<b>POSTER PRESENTATIONS – from EEC-D-PS31 to EEC-D-PS44</b>
<b>EEC-D-PS32.</b>	DISINFECTION OF SEWAGE WITH THE HELP OF A SYSTEM THAT GENERATES COPPER IONS <b>B. Sabag, O. Saphier, M. Saphier, Israel</b>
<b>EEC-D-PS33.</b>	ECOLOGY OF OIL INDUSTRY <b>J. Samadov, S. Hajiyeva, G. Bayramov, Azerbaijan</b>
<b>EEC-D-PS34.</b>	THE VARIATION OF THE BIOACTIVE COMPOUNDS CONTENT IN LETTUCE GROWN IN THE PRESENCE OF HEAVY METALS SALTS <b>A. Sarb, M. L. Soran, I. Lung, A. Stegarescu, O. Opris, O. Culicov, D. Gligor, Romania</b>



<b>EEC-D-PS35.</b>	EVALUATION OF THE POLYPHENOLS POTENTIAL FROM GRAPE VINIFICATION RESIDUES OF RARA NEAGRĂ AND MALBEC GRAPES VARIETIES HARVESTED FROM PURCARI AREA <b><u>I. Scutaru</u>, A. Scifos, V. Druta, Moldova</b>
<b>EEC-D-PS36.</b>	ANALYSIS OF THE MECHANISM OF FORCED OXIDATION OF GRAPE SEED OIL <b><u>I. Subotin</u>, R.Sturza, R. Druță, V.Popovici, Moldova</b>
<b>EEC-D-PS37.</b>	STRUCTURAL, SPECTROSCOPIC AND DFT STUDIES OF A COMMON FOOD PRESERVATIVE «E202» AND INVESIGATION OF ITS IN-VITRO ANTIMICROBIAL ACTIVITY <b><u>M. Taferguennit</u>, N. Kichou, Algeria</b>
<b>EEC-D-PS38.</b>	THE IMPACT OF TOMATIN BAC ON THE PROCESS OF ALCOHOLIC FERMENTATION OF CEREAL BIOMAS <b><u>C. Tasca</u>, Gh. Duca, E. Covaci, Moldova</b>
<b>EEC-D-PS39.</b>	STUDY OF ADSORPTION PARAMETERS OF AUTOCHTHONOUS CARBON ENTEROSORBENTS <b><u>N. Timbaliuc</u>, O. Petuhov, T. Lupascu, Moldova</b>
<b>EEC-D-PS40.</b>	STUDY OF THE EVOLUTION OF POLYPHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF LOCAL GRAPE VARIETIES AT DIFFERENT MATURATION PERIODS <b><u>C. Vicol</u>, B. Morari, N. Taran, Gh. Duca, Moldova</b>
<b>EEC-D-PS41.</b>	EXTRACTIVE PHOTOMETRIC DETERMINATION OF COBALT <b><u>A. Zalov</u>, G. Huseynova, Azerbaijan</b>
<b>EEC-D-PS42.</b>	RESIN ACIDS AS RAW MATERIAL FFOR FABRICATION OF ANTIFUNGAL MICRO- AND NANOPARTICLES OF DEHYDROABIETIC ACID LOADED WITH CYCLODEXTRIN AND CHROMENOL HYBRID <b>M. Zveaghintseva, E. Stingaci, S. Pogrebnoi, L. Lupascu, V. Valica, L. Uncu, V. Kravtsov, D. Terteac, A. Brinzan, <u>F. Macaev</u>, Moldova</b>
<b>EEC-D-PS43.</b>	STUDY OF OXIDES CONTENT IN VOLCANIC MUD SAMPLES USING A HIGH-EFFICIENCY S8 TIGER X-RAY FLUORESCENT SPECTROMETER <b>S. Hajiyeva, <u>T. Aliyeva</u>, A. Samadova, N. Shakhnazarova, Azerbaijan</b>
<b>EEC-D-PS44.</b>	ADSORPTION OF P-COUMARIC ACID ON OENOLOGICAL ACTIVATED CARBONS <b><u>I. Ginsari</u>, R. Nastas, T. Lupascu, Moldova</b>

# The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

## March 4, 2022 - PROGRAM

### Session E-1

#### **ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY WITHIN THE KNOWLEDGE TRIANGLE: RESEARCH-EDUCATION-INNOVATION**

*Moldova State University, Central Building, Senat Conference Hall, Nr.201, 2<sup>nd</sup> Floor,  
60 Mateevici Str., Chisinau, Republic of Moldova*

	<b>EEC-2022 PRESENTATIONS &amp; ACTIVITIES</b>
9:00-9:30	<b>Participants' Registration</b>
<b>9:30-11:00</b> <b>Moderators:</b>	<u>Prof., Dr. Manuela Elisabeta SIDOROFF</u> , National Institute of Research and Development for Biological Sciences, Romania <u>Elena CULIGHIN</u> , Institute of Chemistry, Chisinau, Moldova
<b>9:30-9:45</b>	<b>Prof., Dr. Manuela Elisabeta SIDOROFF</b> , National Institute of Research and Development for Biological Sciences, <b>Romania</b> SINERGIES AND COLLABORATION OPORTUNITIES IN RESEARCH-EDUCATION-INNOVATION FOR RIVER-SEA SYSTEM <u>M. E. Sidoroff, M. Paraschiv, I. M. Tusa, C. Itcus, M. Paun, Gh. Duca, Romania</u>
<b>9:45-10:00</b>	<b>Dr. Magal SAPHIER</b> , Shamoon College of Engineering, Be'er Sheva, <b>Israel</b> ANTIMICROBIAL EFFECT OF MONOVALENT COPPER IONS, POSSIBLE APPLICATIONS <u>M. Saphier, B. Sabg, G. Shraga, O. Saphier, Israel</u>
<b>10:00-10:15</b>	<b>Dr. Octavian PACIOGLU</b> , National Institute of Research and Development for Biological Sciences, <b>Romania</b> ECOPHYSIOLOGICAL AND LIFE-HISTORY ADAPTATIONS OF GAMMARUS BALCANICUS (SCHÄFERNA, 1922) IN A SINKING-CAVE STREAM FROM WESTERN CARPATHIANS (ROMANIA) <u>O. Pacioglu, I. M. Tuşa, M. Sidoroff, D. Florea, G. Gavril, C. Iţcuş, Romania</u>
<b>10:15-10:30</b>	<b>Constantin HRAMCO</b> , Joint Institute for Nuclear Research, <b>Russia</b> EXPERIMENTAL SETUP FOR ELEMENTAL ANALYSIS USING PROMPT GAMMA RAYS AT RESEARCH REACTOR IBR-2 <u>C. Hramco, Russia</u>
<b>10:30-10:45</b>	<b>Dr. Simona Gabriela MUNTEAN</b> , "Coriolan Dragulescu" Institute of Chemistry Timisoara of Romanian Academy, <b>Romania</b> REMOVAL OF CONGO RED AND Cu(II) BY ADSORPTION USING CARBON MAGNETIC NANOCOMPOSITES: OPTIMIZATION BY RESPONSE SURFACE METHODOLOGY, KINETIC AND THERMODYNAMIC STUDIES <u>S. G. Muntean, L. Halip, A. M. Nistor, C. Pacurariu, Romania</u>

<b>10:45-11:00</b>	<b>Yaşar Kemal RECEPOĞLU</b> , <i>Izmir Institute of Technology, Turkey</i> DEVELOPMENT OF SUSTAINABLE AND COST EFFECTIVE BIOSORBENT FROM HAZELNUT SHELL WASTE FOR LITHIUM EXTRACTION FROM WATER <i>Y. K. Receptoğlu, A. Yüksel, Turkey</i>
11:00-11:30	Break
<b>11:30-13:00</b> <b>Moderators:</b>	<u>Elena CULIGHIN</u> , <i>Institute of Chemistry, Chisinau, Moldova</i> <u>Larisa MOCANU</u> , <i>Moldova State University, Moldova</i>
<b>11:30-11:45</b>	<b>Maria-Andreea NISTOR</b> , <i>“Coriolan Drăgulescu” Institute of Chemistry, Timisoara, Romania</i> NEW MAGNETIC NANOPARTICLES APPLIED AS ADSORBENTS FOR REMOVAL OF ANIONIC AND CATIONIC DYES FROM AQUEOUS SOLUTIONS <i>M.-A. Nistor, S. G. Muntean, R. Ianos, Romania</i>
<b>11:45-12:00</b>	<b>Aliona ISAC</b> , <i>Tiraspol State University, Moldova</i> ALLUVIUM RUNOFF IN TRANSBOUNDARY RIVERS IN THE REPUBLIC OF MOLDOVA <i>A. Isac, Moldova</i>
<b>12:00-12:15</b>	<b>Anastasiya DZIKAYA</b> , <i>Institute of General and Inorganic Chemistry, National Academy of Sciences of Belarus, Belarus</i> ADSORPTION PERFORMANCE OF Zr-Ca-Mg COMPOSITE PHOSPHATES TO CO <sub>2</sub> <sup>+</sup> IONS <i>A. Ivanets, I. Shashkova, N. Kitikova, A. Dzikaya, N. Drazdova, Belarus</i>
<b>12:15-12:30</b>	<b>Elena CULIGHIN</b> , <i>Institute of Chemistry, Chisinau, Moldova</i> CLIMAT BOX A TOOL FOR ENVIRONMENTAL EDUCATION <i>E. Culighin, T. Castravet, A. Velicinschi, Moldova</i>
<b>12:30-12:45</b>	<b>Yetar BABASHOVA MUZABBAR</b> , <i>The “Acad. Y.H. Mammedaliyev” Institute of Petrochemical Processes, Azerbaijan National Academy of Sciences, Baku, Azerbaijan</i> ECOFRIENDLY IONIC LIQUIDS IN PETROCHEMICAL PROCESSES <i>Yetar Babashova Muzabbar, Azerbaijan</i>
<b>12:45-13:00</b>	<b>Rustam SERHANOV</b> , <i>Lokmera LTD Company, Chisinau, Moldova</i> IDENTIFY EMERGING CONTAMINANTS IN AIR, WATER, AND SOIL <i>Nicolai Iasibas, Rustam Serhanov, Moldova</i>
<b>13:00-13:15</b>	<b>Ana UNGUREANU</b> , <i>Tiraspol State University, Chisinau, Moldova</i> ANTIBIOTIC RESIDUES IN FOOD <i>Ana Ungureanu, Elena Nicolau, Moldova</i>
13:15-14:00	Break

<b>14:00-15:30</b>	<b>Poster Session: Presentations, Discussion and Comments (On-line)</b>
<b>15:30</b>	<b>Closing Session: Conclusions and Recommendations (On-line)</b>
<b>POSTER PRESENTATIONS</b>	
<b>14:00-15:30</b> <b>Moderators:</b>	<u>Maxim CISTEACOV</u> , <i>Moldova State University, Moldova</i> <u>Angela LIS</u> , <i>Moldova State University, Moldova</i>
<b>EEC-E1-PS-1</b>	NON-COVALENT INTERACTIONS – USEFUL TOOLS IN CRYSTAL ENGINEERING <b><u>M. Andruh</u>, Romania</b>
<b>EEC-E1-PS-2</b>	ALGORITHM OF ANTI-SCIENTIFIC MYTHS REFUTATION BY SCALING OF THE TYPICAL TASKS AND EXPERIMENTS IN CHEMISTRY <b>I. Baerle, <u>A. Baerle</u>, Moldova</b>
<b>EEC-E1-PS-3</b>	THE ROLE OF INVA-GENE IN THE DETERMINATION OF SALMONELLA SPP. CONTAMINATION OF FOOD <b><u>E. Behta</u>, Moldova</b>
<b>EEC-E1-PS-4</b>	ADSORPTION OF Cu(II) BY INTACT AND MODIFIED ACTIVATED CARBON <b><u>S. Cibotaru</u>, Moldova</b>
<b>EEC-E1-PS-5</b>	STUDY OF VITAMIN B12 ADSORPTION ACCORDING TO THE NATURE OF THE CARBONIC ADSORBENTS <b><u>S. Cibotaru</u>, Moldova</b>
<b>EEC-E1-PS-6</b>	A HYBRID PHOTO CATALYST FOR SOLVING ENVIRONMENTAL PROBLEMS <b><u>T. Datsko</u>, Veaceslav Zelentsov, Dmitri Dvornikov, Moldova</b>
<b>EEC-E1-PS-7</b>	PERSISTENT ORGANOCHLORINE PESTICIDES AND THEIR IMPACT ON HUMAN HEALTH <b>Gh. Duca, O. Bogdevich, <u>E. Nicolau</u>, Moldova</b>
<b>EEC-E1-PS-8</b>	INTERACTION OF PROPERTY RIGHT WITH ENVIRONMENTAL LAW FROM HUMAN RIGHTS PERSPECTIVE <b><u>M. Gladchi</u>, Moldova</b>
<b>EEC-E1-PS-9</b>	THE ACYLATION REACTIONS OF CYCLOALKYLPHENOLS WITH ACETIC ACID <b><u>G. Haydarli</u>, Ch. Rasulov, Azerbaijan</b>
<b>EEC-E1-PS-10</b>	POSSIBILITIES OF APPLICATION OF MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH IN CONSTRUCTION <b><u>I. Hrechanyk</u>, V. Savchuk, Ukraine</b>
<b>EEC-E1-PS-11</b>	GREEN SYNTHESIS OF ZnO NANOPARTICLES USING AQUEOUS PEEL EXTRACTS OF POMEGRANATES AND ITS APPLICATION IN SEED COATING <b><u>R. Khankishiyeva</u>, T. Murshudov, H.V. Akhundzada, N. Amrahov, P. Ismayilova, L. Ashumova, N. Hajizada, Azerbaijan</b>

<b>EEC-E1-PS-12</b>	HUMAN RIGHTS FOR BETTER LIVE: ENVIRONMENTAL TRANSNATIONAL RIGHTS, LEGISLATION AND CONTROL <b><u>N. Kravciuk</u>, Moldova</b>
<b>EEC-E1-PS-13</b>	CURRENT ENVIRONMENTAL CHALLENGES FOR HUMAN SECURITY <b><u>P. Lificiu</u>, Romania</b>
<b>EEC-E1-PS-14</b>	ISOPROPYL AMINOMETHYL PHENOL - AS AN EFFECTIVE DISINFECTANT AND BACTERICIDAL AGAINST INFECTIOUS DISEASES <b>K. Rasulov, H. Yusifov, H. Dilbazi, <u>T. Shahmuradov</u>, Azerbaijan</b>
<b>EEC-E1-PS-15</b>	OBTAINING OF ANIONIC FORM NANOMATERIAL AND POSSIBILITY OF ITS USE IN AGRICULTURE <b><u>G. Tsintskaladze</u>, T. Kordzakhia, T. Sharashenidze, M. Zautashvili, M. Burdjanadze, L. Eprikashvili, Georgia</b>

## The 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY

### March 4, 2022 - PROGRAM

#### Session E-2

#### ***ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY WITHIN THE KNOWLEDGE TRIANGLE: RESEARCH-EDUCATION-INNOVATION***

EEC-2022 PRESENTATIONS & ACTIVITIES	
9:00-9:30	<b>Participants' Registration</b>
<b>9:30-11:00</b> <b>Moderator:</b>	<u>Dr. Mariana DIRU</u> , <i>Moldova State University, Moldova</i> <u>Nelea POPA</u> , <i>Moldova State University, Moldova</i>
<b>9:30-9:45</b>	<b>Dr. Iordanca-Rodica IORDANOV</b> , <i>Ministry of Environment, Moldova</i> DREPTUL LA UN MEDIU SĂNĂTOS <u>Gh. Avornic, I.-R. Iordanov</u> , <i>Moldova</i>
<b>9:45-10:00</b>	<b>Vladislav BLONSCHI</b> , <i>Moldova State University, Chisinau, Moldova</i> HISTORY OF THE ECOLOGICAL CHEMISTRY DEVELOPMENT <i>V. Gladchi, M. Gonta, L. Romanciuc, E. Bunduchi, V. Blonschi, Moldova</i>
<b>10:00-10:15</b>	<b>Dr. Mariana DÎRU</b> , <i>Moldova State University, Chisinau, Moldova</i> CONSECINȚELE UTILIZĂRII IRAȚIONALE A SUBSTANȚELOR <u>M. Dîru, Z. Chiosa</u> , <i>Moldova</i>
<b>10:15-10:30</b>	<b>Dr. Natalia VELIȘCO</b> , <i>Moldova State University, Moldova</i> FORMARE PROFESIONALĂ CONTINUĂ ÎN DOMENIUL CHIMIE <u>N. Velișco</u> , <i>Moldova</i>
<b>10:30-10:45</b>	<b>Mariana PURICE</b> , <i>L/T, „Ion Creangă” Hirbovăț, Anenii Noi, Moldova</i> EDUCAȚIA ECOLOGICĂ PRIN IMPLICAREA ELEVILOR ÎN PROIECTUL ECOLOGIC GREEN SCHOOL (ȘCOALA VERDE) <u>M. Purice</u> , <i>Moldova</i>
<b>10:45-11:00</b>	<b>Dr. Iurie UNGUREANU</b> , <i>Theoretical High School “B.P.Hasdeu”, Bălți, Moldova;</i> <i>Theoretical High School “M. Gorki”, Bălți, Moldova;</i> <b>Alexandru Ioan Cuza</b> <i>University of Iasi, Faculty of Chemistry, Iasi, Romania;</i> <b>Institute of Chemistry,</b> <i>Chișinău, Moldova</i> EFECTUL TĂRIEI IONICE ASUPRA REACȚIEI DUSHMAN <u>Iu. Ungureanu, Gh. Duca</u> , <i>Moldova</i>
11:00-11:30	Break

<b>11:30-13:00</b> <b>Moderator:</b>	Dr. Mariana DIRU, <i>Moldova State University, Moldova</i> Dr. Vladislav BLONSCHI, <i>Moldova State University, Moldova</i>
<b>11:30-11:45</b>	<b>Irina RUJAVNIȚA</b> , <i>Colegiu Agroindustrial Ungheni, Moldova</i> DETERMINAREA CALITĂȚII DETERGENȚILOR, IMPACTUL NEGATIV ASUPRA MEDIULUI ȘI SĂNĂTĂȚII UMANE <i>I. Rujavnița, Moldova</i>
<b>11:45-12:00</b>	<b>Dr. Hab. Vasili ȘARAGOV</b> , <i>Universitatea de Stat „Alec Russo” din Bălți, Moldova</i> UNELE ASPECTE ÎN PREDAREA IMPACTULUI POLUĂRII ASUPRA SĂNĂTĂȚII <i>V. ȘARAGOV, Moldova</i>
<b>12:00-12:15</b>	<b>Evghenia COSUHINA</b> , <i>Profesoară, grad didactic I, Instituția Publică Colegiul Agroindustrial din Râșcani, Republica Moldova</i> SPORIREA GRADULUI DE CONȘTIENȚIZARE ECOLOGICĂ A TINERILOR PRIN IMPLICARE ÎN ACTIVITĂȚI DE PROTECȚIE A MEDIULUI <i>Evghenia COSUHINA, Aurelia ȘOȘU, Nelea POPA, Moldova</i>
<b>12:15-12:30</b>	<b>Corina MIHNA (CASU)</b> , <i>Moldova State University, Moldova</i> MEDICINAL PLANT PRODUCTS - THE SOURCE OF RAW MATERIALS FOR A SUSTAINABLE PHARMACEUTICAL INDUSTRY <i>V. Blonschi, A. Frecautan, C. Mihna (Casu), Moldova</i>
<b>12:30-14:00</b>	<b>POSTER PRESENTATIONS</b>
<b>Moderator:</b>	<u>Dr. Mariana DIRU</u> , <i>Moldova State University, Moldova</i> <u>Dr. Vladislav BLONSCHI</u> , <i>Moldova State University, Moldova</i>
<b>EEC-E2-PS-1</b>	TEHNOLOGIA DE CREȘTERE A ZARZAVATURILOR PRIN CULTIVAREA PE VERTICALĂ PRIN METODELE SI MATERIALE ECOLOGICE <b><u>D. Balan, T. Stahi, Moldova</u></b>
<b>EEC-E2-PS-2</b>	IMPACTUL SCHIMBĂRIILOR CLIMATICE ASUPRA DATEI DE MANIFESTARE A INGHEȚURILOR PERICULOASE PE TERITORIUL REPUBLICII MOLDOVA <b><u>A. Botnari, Moldova</u></b>
<b>EEC-E2-PS-3</b>	FORMAREA COMPETENȚELOR AMBIENTALE LA PREGĂTIREA SPECIALIȘTILOR DIN DOMENIUL TEHNOLOGIEI CHIMICE <b><u>E. Bunduchi, V. Gladchi, Gh. Duca, Moldova</u></b>
<b>EEC-E2-PS-4</b>	EVALUAREA IMPACTULUI ANTROPIC ASUPRA AERULUI ATMOSFERIC DIN ECOSISTEMELE ARIILOR NATURALE PROTEJATE DE STAT <b><u>V. Brega, A. Târîță, V. Stegărescu, Moldova</u></b>
<b>EEC-E2-PS-5</b>	DINAMICA SCHIMBARILOR CLIMATICE PE TERITORIUL REPUBLICII MOLDOVA CONFORM CLASSIFICARII KOPPEN-TREWARTHA <b><u>O. Crivova, Moldova</u></b>

<b>EEC-E2-PS-6</b>	REGIMUL DE OXIGEN AL APEI FLUVIULUI NISTRU <b><u>E. Dorogan</u>, Moldova</b>
<b>EEC-E2-PS-7</b>	ПРЕДМЕТ «ЭКОЛОГИЧЕСКОЕ ВОСПИТАНИЕ» В ЦИКЛЕ ЛИЦЕЙСКОГО ОБРАЗОВАНИЯ РЕСПУБЛИКИ МОЛДОВА <b><u>A. Metta</u>, P. Boroadaev, Moldova</b>
<b>EEC-E2-PS-8</b>	METODE STANDARDIZATE DE DETERMINARE A CALITĂȚII SOLULUI <b><u>L. Sergheev</u>, Moldova</b>
<b>EEC-E2-PS-9</b>	BENEFICIILE ECONOMICE ALE UTILIZĂRII ERBICIDELOR ASOCIATE CU IMPACTUL NEURODEGENERATIV ȘI CANCEROGEN <b><u>Gh. Țibîrnă</u>, I. Mereuță, A. Baci, V. Fedas, Moldova</b>
<b>EEC-E2-PS-10</b>	ROLUL EXPERTIZEI JUDICIARE ECOLOGICE BAZINELOR ACVATICE ÎN URMA IMPACTULUI ANTROPOGEN ȘI GESTIONAREA INTERNAȚIONALĂ A RESURSELOR NATURALE ÎN CONDIȚIILE SCHIMBĂRIILOR CLIMATICE <b><u>V. Trifăuțan</u>, Moldova</b>
<b>EEC-E2-PS-11</b>	METODE STANDARDIZATE DE DETERMINARE A CALITĂȚII AERULUI <b><u>A. Uzun</u>, Moldova</b>