



***THE 6<sup>TH</sup> INTERNATIONAL CONFERENCE  
ECOLOGICAL & ENVIRONMENTAL CHEMISTRY-2017***

***MARCH 2-3, 2017,  
CHISINAU, REPUBLIC OF MOLDOVA***

**PROGRAM**

Chisinau\*2017





**Program of the 6<sup>th</sup> International Conference  
“ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017”**

March 2-3, 2017, Academy of Sciences of Moldova (ASM)

1 Stefan cel Mare Blvd., MD-2001, Chisinau, Republic of Moldova

**Acknowledgement:**

The Organizing Committee of the 6<sup>th</sup> International Conference “ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017” is highly appreciated the generous support and contribution of the following institutions:

- *The National Commission of the Republic of Moldova for the United Nations Educational, Scientific and Cultural Organization (UNESCO);*
- *The Intergovernmental Foundation for Educational, Scientific and Cultural Cooperation (IFESCCO).*

**Conference Chairman:**

Acad. Gheorghe DUCA, President of the Academy of Sciences of Moldova

**Conference Secretariat:**

Dr. Lidia ROMANCIUC, Centre of International Projects (ASM)

Dr. Lilia ANGHEL, Institute of Chemistry, ASM

[EEC-2017@mrda.md](mailto:EEC-2017@mrda.md)

<http://eec-2017.mrda.md/>

The 6<sup>th</sup> International Conference “ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017” Program contains detailed schedule of Plenary Session on March 2, 2017 and five parallel Working Sessions on March 3, 2017.

**Program**

**The 6<sup>th</sup> International Conference “ECOLOGICAL & ENVIRONMENTAL CHEMISTRY – 2017”**

March 2-3, 2017, Academy of Sciences of Moldova

1 Stefan cel Mare Blvd., MD-2001,

Chisinau, Republic of Moldova

**Editor:**

Acad. Gheorghe Duca,

President of the Academy of Sciences of Moldova

Printing House of the \_\_\_\_\_

Chisinau, 2017



The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY-2017

[www.eec-2017.mrda.md](http://www.eec-2017.mrda.md), March 2-3, 2017, Chisinau, Republic of Moldova

## The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

*March 2-3, 2017, Academy of Sciences of Moldova  
1 Stefan cel Mare Blvd., MD-2001, Chisinau, Republic of Moldova*

### PARTICIPANTS WELCOME

Dear EEC-2017 Conference Participants,

It is my honor to welcome you at the 6<sup>th</sup> International Conference on Ecological & Environmental Chemistry-2017 which is a part of a series of events in this field organized during the more than 30 years' period. Special thanks I would like to express to the National Commission of the Republic of Moldova for UNESCO, Intergovernmental Foundation for Educational, Scientific and Cultural Cooperation (IFESCCO), Academy of Sciences of Moldova and other Moldovan Institutions contributed for successful organization of the EEC-2017 event.

Consider that the EEC-2017 event will serve as a good arena for communications, experience exchange, partnerships development, presentation of the latest ideas and achievements in the fields of Ecological Chemistry, Environmental Chemistry, Green Chemistry and corresponding aspects in chemical research and education. More than 400 scientists and engineers from 22 countries expressed their interest to participate in the EEC-2017 Conference.

Due to the permanently increasing relevance and importance of issues to be presented at the EEC-2017 Conference, I do hope that this traditional event on Ecological Chemistry will be organized by our followers many years afterwards.

Good luck and new scientific achievements in the field!

Sincerely,

**Acad. Gheorghe DUCA,  
President of the Academy of Sciences of Moldova**





# The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 2-3, 2017

Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., MD-2001, Chisinau, Republic of Moldova

## Program Content

<b>Plenary Session</b> .....	12
<b>Session A: Ecological Chemistry</b> .....	15
<b>Session B: Environmental Chemistry and Engineering</b> .....	20
<b>Session C: Green Chemistry</b> .....	25
<b>Session D: Ecological &amp; Environmental Aspects in Chemical Research and Education</b> .....	31
<b>Session E: Young Scientists Research in Ecological &amp; Environmental Chemistry</b> ....	34





# The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

## INTERNATIONAL SCIENTIFIC COMMITTEE

### CHAIR

**Prof. Gheorghe DUCA**, Academician, President of the Academy of Sciences of Moldova

### MEMBERS

**Prof. Serghey ALDOSHIN**, Academician, Vice-President of the Russian Academy of Sciences, Director of the Institute of Problems of Chemical Physics, **Russia**

**Prof. Dr. Müfit BAHADIR**, Institute of Ecological and Analytic Chemistry, Technical University of Braunschweig, **Germany**

**Prof. Isaak BERSUKER**, Academician, Institute for Theoretical Chemistry, The University of Texas at Austin, **USA**

**Prof. Boguslaw BUSZEWSKI**, Faculty of Chemistry, Nicolaus Copernicus University in Torun, **Poland**

**Prof. Asaf HAJIYEV**, General Secretary of the Parliamentary Assembly of the Black Sea Economic Cooperation (PABSEC)

**Prof. Alexander GARABADZHIU**, Saint-Petersburg State Institute of Technology, **Russia**

**Dr. Viorica GLADCHI**, Dean of the Faculty of Chemistry and Chemical Technology, Moldova State University, **Moldova**

**Prof. Catherine GOYET**, Perpignan University, **France**

**Prof. Ibrahim GULIYEV**, Academician, Vice-President of the National Academy of Sciences of Azerbaijan, **Azerbaijan**

**Prof. Mykola KARTEL**, Academician, Chuiko Institute of Surface Chemistry, National Academy of Sciences of Ukraine, Kiev, **Ukraine**

**Prof. Tudor LUPASCU**, Corresponding Member of the Academy of Science of Moldova, Director of the Institute of Chemistry ASM, **Moldova**

**Prof. Radic MARTIROSYAN**, Academician, President of the National Academy of Sciences of **Armenia**

**Prof. Gevorg PIRUMYAN**, Academician, Head of Center for Ecological Safety, Erevan State University, **Armenia**

**Prof. Dr. Gerrit SCHÜÜRMAN**, Head of Department of Ecological Chemistry, UFZ Helmholtz Centre for Environmental Research, Leipzig, **Germany**

**Prof. Yuri SCURLATOV**, Academician, Institute of Chemical Physics, Russian Academy of Sciences, **Russia**

**Prof. Bogdan SIMIONESCU**, Academician, Vice President of the Romanian Academy, Iasi, **Romania**

**Prof. Dr. Eiliv STEINNES**, Department of Chemistry, Norwegian University of Science and Technology, Trondheim, **Norway**

**Prof. Dr. Ashok VASEASHTA**, Director of Research Convergence International Clean Water Institute, **USA**

**Dr. Sanda VELEA**, Director of the National R&D Institute for Chemistry and Petrochemistry, **Romania**

**Prof. Murat ZHURINOV**, Academician, President of the National Academy of Sciences of the Republic of **Kazakhstan**



## The 6<sup>th</sup> International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017**

*March 2-3, 2017, Academy of Sciences of Moldova  
1 Stefan cel Mare Blvd., MD-2001, Chisinau, Republic of Moldova*

The 6<sup>th</sup> International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017 (EEC-2017)** is a part of series of successful conferences organized in 1985, 1995, 2002, 2005, 2008 and 2012 being supported by UNESCO, CRDF/MRDA, ONRG, as well as some local R&D organizations: Academy of Sciences of Moldova, Department of Ecological and Industrial Chemistry of Moldova State University, Moldovan Chemical Society and the Moldovan Research and Development Association.

The **EEC-2017** is an important international event, which attracts scientists and engineers from Europe, NIS, U.S.A. and other countries. It will provide 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.

### **EEC-2017 CONFERENCE TOPICS:**

#### **A. Ecological Chemistry**

- Physico-chemical and chemico-biological processes which determine composition, structure and chemical properties of the environment
- Chemical risk assessment of human health and ecological system

#### **B. Environmental Chemistry and Engineering**

- Chemistry and processes of treatment of water, air and waste
- Chemical degradation of soil

#### **C. Green Chemistry**

- Preventing and reducing the negative impact of chemistry on the environment
- Design of ecological friendly technologies and chemical products that minimize the use and generation of hazardous substances

#### **D. Ecological & Environmental Aspects in Chemical Research and Education**

- Ecological & environmental methodological aspects in chemical research and innovation activities
- Ecological & environmental methodological aspects in chemical education

#### **E. Young Scientists Research in Ecological and Environmental Chemistry**

The 6<sup>th</sup> International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017** is organized with support of the following organizations:

- *Academy of Sciences of Moldova;*
- *The National Commission of the Republic of Moldova for the United Nations Educational, Scientific and Cultural Organization (UNESCO);*
- *The Intergovernmental Foundation for Educational, Scientific and Cultural Cooperation (IFESCCO);*
- *Institute of Chemistry of the Academy of Sciences of Moldova;*
- *Moldovan Chemical Society;*
- *Chemical and Chemical Technology Faculty, Department of the Ecological and Industrial Chemistry, Scientific Center for Ecological and Applied Chemistry of the Moldova State University;*
- *University of the Academy of Sciences of Moldova;*
- *University of European Political and Economic Studies „Constantin Stere”*
- *The American University of Moldova*
- *Moldovan Research and Development Institution.*



# The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 2-3, 2017

Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., MD-2001, Chisinau, Republic of Moldova

## Program Structure

	EEC-2017 Session/Activity	Location
	<b>March 1, 2017</b>	
	Participants Arrival and Accommodation	Hotels
19:00	Welcome/Networking Reception	Jolly Alon Restaurant
	<b>March 2, 2017</b>	
8:00-9:00	Participants Registration	ASM Lobby
<b>9:00-9:30</b>	<b>Conference Welcome</b>	<b>ASM Blue Hall</b>
<b>9:30-11:00</b>	<b>Plenary Session</b>	<b>ASM Blue Hall</b>
11:00	Group Photo	ASM Blue Hall
11:00-11:30	Tea/Coffee	ASM Gold Hall
<b>11:30-13:00</b>	<b>Plenary Session</b>	<b>ASM Blue Hall</b>
13:00-14:00	Lunch	ASM Gold Hall
<b>14:00-15:30</b>	<b>Plenary Session</b>	<b>ASM Blue Hall</b>
15:30-16:00	Tea/Coffee	ASM Gold Hall
<b>16:00-17:30</b>	<b>Plenary Session</b>	<b>ASM Blue Hall</b>
18:00	Networking Reception	Upon Invitation
	<b>March 3, 2017</b>	
9:00-9:30	Participants Registration	At the sessions location
<b>9:30-11:00</b>	<b>Session A: Ecological Chemistry</b>	<b>ASM Blue Hall</b> <i>1 Stefan cel Mare Blvd., Chisinau</i>
	<b>Session B: Environmental Chemistry and Engineering</b>	<b>ASM Small Hall</b> <i>1 Stefan cel Mare Blvd., Chisinau</i>
	<b>Session C: Green Chemistry</b>	<b>Central Scientific Library "A. Lupan"</b> <i>5A Academiei Str., Chisinau</i>
	<b>Session D: Ecological &amp; Environmental Aspects in Chemical Research and Education</b>	<b>Moldova State University</b> <i>Building IV, 2<sup>nd</sup> Floor, Room 222</i>
	<b>Session E: Young Scientists Research in Ecological &amp; Environmental Chemistry</b>	<b>University ASM</b> <i>3/2 Academiei Str., Chisinau</i>
11:00-11:30	Tea/Coffee	At the sessions location
<b>11:30-13:00</b>	<b>Work in Sessions: continuation</b>	<b>At the sessions location</b>
13:00-14:00	Lunch	At the sessions location
<b>14:00-15:30</b>	<b>Work in Sessions: continuation</b>	<b>At the sessions location</b>
<b>16:00-17:00</b>	<b>Conference Conclusions and Recommendations</b>	<b>ASM Blue Hall</b>
17:00	Closing Reception	ASM Gold Hall
	<b>March 4-5, 2017</b>	
	<b>Participants Departure</b>	



## Cea de a 6-a Conferința Internațională CHIMIA ECOLOGICĂ ȘI CHIMIA MEDIULUI - 2017

*2-3 martie, 2017, Academia de Științe a Moldovei  
B-d Stefan cel Mare 1, 2001 MD, Chisinau, Republica Moldova*

A 6-a Conferință Internațională **CHIMIA ECOLOGICĂ ȘI CHIMIA MEDIULUI 2017 (EEC-2017)** este una din seria de conferințe de succes organizate în 1985, 1995, 2002, 2005, 2008 și 2012 susținute de UNESCO, CRDF/MRDA, ONRG, precum și de unele organizații locale de cercetare și dezvoltare: Academia de Științe a Moldovei, Departamentul de Chimie Industrială și Ecologică al Universității de Stat din Moldova, Societatea de Chimie din Moldova și Asociația de Cercetare și Dezvoltare din Moldova.

**EEC-2017** este un eveniment internațional important, care atrage oameni de știință și ingineri din Europa, NIS, S.U.A și alte țări. Acesta oferă posibilitatea de a face schimb de cele mai recente idei, de a prezenta și discuta ultimele rezultate privind procesele fizico-chimice și biochimice parte ale ecosistemului - sol, aer și apă, precum și abordări promițătoare ale dezvoltării durabile, incluzând, în afară de altele, atât aspecte de inginerie și modelare cât și sociale și educaționale conexe. Scopul conferinței este de a încuraja și de a facilita comunicarea interdisciplinară între oamenii de știință, ingineri, economiști, profesori și profesioniști care lucrează pe probleme de mediu și dezvoltare durabilă.

### SECȚIILE CONFERINȚEI EEC-2017

#### A. Chimia Ecologică

- Procesele fizico-chimice și chimico-biologice ce determină compoziția, structura și proprietățile chimice ale mediului
- Evaluarea riscului chimic asupra sănătății umane și sistemului ecologic

#### B. Chimia și Ingineria Mediului

- Chimia și procesele de tratare a apei, aerului și deșeurilor
- Degradarea chimică a solului

#### C. Chimia Verde

- Prevenirea și reducerea impactului negativ al chimiei asupra mediului
- Proiectarea tehnologiilor ecologice și a produselor chimice care reduc utilizarea și generarea de substanțe toxice

#### A. Aspecte de Ecologie și de Mediu în Cercetarea Chimică și Educație

- Aspecte Metodologice de Ecologie și de Mediu în Activitățile de Cercetare și Inovare din Domeniul Chimiei
- Aspecte Metodologice de Ecologie și de Mediu ale Educației din Domeniul Chimiei

#### B. Tineri cercetători în domeniul Chimiei Ecologice și Chimiei Mediului

**Mulțumiri:** Cea de a 6-a Conferință Internațională **CHIMIA ECOLOGICĂ ȘI CHIMIA MEDIULUI - 2017** este organizată cu suportul următoarelor organizații:

- *Academia de Științe a Moldovei;*
- *Comisia Nationala al Republicii Moldova pentru UNESCO (Organizația Națiunilor Unite pentru Educație, Știință și Cultură);*
- *Fundația Interguvernamentală pentru Educație, Știință și Cooperare Culturală (IFESCO);*
- *Institutul de Chimie al Academiei de Științe a Moldovei;*
- *Societatea de Chimie din Republica Moldova;*
- *Facultatea de Chimie și Tehnologie Chimică, Departamentul Chimie Ecologică și Industrială, Centrul Științific de Chimie Ecologică și Aplicată al Universității de Stat din Moldova;*
- *Universitatea Academiei de Științe a Moldovei;*
- *Universitatea de Studii Politice și Economice Europene „Constantin Stere”;*
- *Universitatea Americană din Moldova;*
- *Instituția de Cercetare și Inovare din Republica Moldova.*





## Cea de a 6-a Conferința Internațională CHIMIA ECOLOGICĂ ȘI CHIMIA MEDIULUI - 2017

2-3 martie, 2017, Academia de Științe a Moldovei  
B-d Ștefan cel Mare 1, 2001 MD, Chisinau, Republica Moldova

### Structura Programului

	EEC-2017 Activități	Locul desfășurării
	<b>Martie 1, 2017</b>	
	Sosirea și cazarea participanților	Hotel
19:00	Recepție	Restaurant Jolly Alon
	<b>Martie 2, 2017</b>	
8:00-9:00	Înregistrarea participanților	ASM Lobby
<b>9:00-9:30</b>	<b>Deschiderea Oficială</b>	<b>Sala Azurie, ASM</b>
<b>9:30-11:00</b>	<b>Sesiunea Plenară</b>	<b>Sala Azurie, ASM</b>
11:00	Sesiunea Foto	ASM Blue Hall
11:00-11:30	Pauza de ceai/cafea	Sala Aurie, ASM
<b>11:30-13:00</b>	<b>Sesiunea Plenară</b>	<b>Sala Azurie, ASM</b>
13:00-14:00	Pauza de prânz	Sala Aurie, ASM
<b>14:00-15:30</b>	<b>Sesiunea Plenară</b>	<b>Sala Azurie, ASM</b>
15:30-16:00	Pauza de ceai/cafea	Sala Aurie, ASM
<b>16:00-17:30</b>	<b>Sesiunea Plenară</b>	<b>Sala Azurie, ASM</b>
18:00	Recepție	În baza invitații
	<b>Martie 3, 2017</b>	
9:00-9:30	Înregistrarea participanților	La locul desfășurării
<b>9:30-11:00</b>	<b>Sesiunea A: Ecological Chemistry</b>	<b>Sala Azurie, ASM</b> <i>Bd.Ștefan cel Mare 1, Chisinau</i>
	<b>Sesiunea B: Chimia și Ingineria Mediului</b>	<b>Sala Mică, ASM</b> <i>1 Ștefan cel Mare Blvd., Chisinau</i>
	<b>Sesiunea C: Chimia Verde</b>	<b>Biblioteca Științifică Centrală "A. Lupan",</b> <i>Str.Academiei 5, Chisinau</i>
	<b>Sesiunea D: Aspecte de ecologie și de mediu în cercetarea chimică și educație</b>	<b>Universitatea de Stat din Moldova</b> <i>Blocul IV, etajul 2, Room 222</i>
	<b>Sesiunea E: Tineri cercetători în domeniul Chimiei ecologice și Chimiei mediului</b>	<b>Universitatea ASM</b> <i>Str. Academiei 3/2, Chisinau</i>
11:00-11:30	Pauza de ceai/cafea	La locul desfășurării
<b>11:30-13:00</b>	<b>Continuare</b>	<b>La locul desfășurării</b>
13:00-14:00	Pauza de prânz	La locul desfășurării
<b>14:00-15:00</b>	<b>Continuare</b>	<b>La locul desfășurării</b>
<b>15:30-16:00</b>	<b>Concluzii și recomandări</b>	<b>Sala Azurie, ASM</b>
16:00	Recepție	Sala Aurie, ASM
	<b>Martie 4-5, 2017</b>	
	<b>Plecarea participanților</b>	



## 6-я Международная конференция ЭКОЛОГИЧЕСКАЯ ХИМИЯ И ХИМИЯ ОКРУЖАЮЩЕЙ СРЕДЫ - 2017

2-3 марта, 2017, Академия наук Молдовы

Б-р Штефан чел Маре 1, MD-2001, Кишинев, Республика Молдова

6-я Международная конференция «Экологическая химия и химия окружающей среды» (ЕЕС-2017) является продолжением серии успешных конференций организованных в 1985, 1995, 2002, 2005, 2008 and 2012, организованных при поддержке ЮНЕСКО/UNESCO, CRDF/MRDA, МФГС, а также Академии наук Молдовы, Государственного университета Молдовы, Молдавского химического общества и Молдавской ассоциации по исследованиям и развитию.

ЕЕС-2017 является важным событием на международном уровне, которое привлекает ученых и специалистов из различных стран Европы, Азии, США и СНГ, которое предоставляет уникальную возможность для обсуждения последних достижений и результатах исследований физико-химических и биохимических процессов, протекающих в природных экосистемах – воде, атмосфере и почвах в результате антропогенного загрязнения. Цель конференции – развитие междисциплинарного сотрудничества для моделирования, прогнозирования и предотвращения загрязнения окружающей среды.

### ЕЕС-2017 Тематики:

#### А. Экологическая химия

- Физико-химические и химико-биологические процессы определяющие состав, структуру и химические свойства окружающей среды
- Оценка химического риска здоровья человека и экологических систем

#### В. Химия и инженерия окружающей среды

- Химические процессы обработки воды, воздуха и отходов
- Химическая деградация почв

#### С. Зеленая химия

- Предотвращение и снижение негативного влияния химических соединений на окружающую среду
- Разработка экологически чистых технологий и химических продуктов минимизирующих использование и генерирование токсичных веществ

#### Д. Экологические аспекты в химическом образовании и науке

- Экологические аспекты в химических исследованиях и инновационной деятельности
- Экологические аспекты и методы в химическом образовании

#### Е. Исследования молодых ученых в экологической химии и химии окружающей среды

Организационный комитет ЕЕС-2017 выражает глубокую признательность за поддержку 6-й Международной конференции «Экологическая химия и химия окружающей среды» следующим организациям и фондам:

- Академия Наук Молдовы;
- Национальная Комиссия Республики Молдова по делам Организации Объединенных Наций по Вопросам Образования, Науки и Культуры (UNESCO);
- Межгосударственный Фонд Гуманитарного Сотрудничества Государств-Участников СНГ (МФГС);
- Институт Химии Академии Наук Молдовы;
- Молдавское Химическое Общество;
- Факультет Химии и Химической Технологии Молдавского Государственного Университета;
- Университет Академии Наук Молдовы;
- Университет Политических и Экономических Европейских Знаний “Константин Стере”
- Американский Университет в Молдове
- Молдавская Ассоциация по Исследованиям и Развитию.



**6-я Международная конференция  
ЭКОЛОГИЧЕСКАЯ ХИМИЯ И ХИМИЯ ОКРУЖАЮЩЕЙ СРЕДЫ  
2-3 марта, 2017**

*Академия Наук Молдовы (АНМ), Бр Штефан чел Маре, 1, 2001 MD, Кишинев, Республика Молдова*

**СТРУКТУРА ПРОГРАММЫ**

	<b>Работа секций ЕЕС-2017</b>	<b>Место проведения</b>
	<b>1 Марта, 2017</b>	
	Приезд и размещение участников	Гостиницы г.Кишинева
19:00	Приветственный ужин для участников конференции	Гостиница Jolly Alon
	<b>2 Марта, 2017</b>	
8:00-9:00	Регистрация участников	АНМ холл
<b>9:00-9:30</b>	<b>Открытие конференции</b>	<b>АНМ Голубой Зал</b>
<b>9:30-11:00</b>	<b>Пленарное Заседание</b>	<b>АНМ Голубой Зал</b>
11:00	Фото участников	АНМ центральный вход
11:00-11:30	Перерыв на чай/кофе	АНМ Золотой Зал
<b>11:30-13:00</b>	<b>Пленарное Заседание</b>	<b>АНМ Голубой Зал</b>
13:00-14:00	Обед	АНМ Золотой Зал
<b>14:00-15:30</b>	<b>Пленарное Заседание</b>	<b>АНМ Голубой Зал</b>
15:30-16:00	Перерыв на чай/кофе	АНМ Золотой Зал
<b>16:00-17:30</b>	<b>Пленарное Заседание</b>	<b>АНМ Голубой Зал</b>
18:00	Культурная программа – экскурсия в Криково	По приглашениям
	<b>3 Марта, 2017</b>	
9:00-9:30	Регистрация участников	В местах проведения секций
<b>9:30-11:00</b>	<b>Секция А: Экологическая химия</b>	<b>АНМ Голубой Зал</b>
	<b>Секция В: Химия и инженерия окружающей среды</b>	<b>Университет Академии Наук Молдовы</b>
	<b>Секция С: Зеленая химия</b>	<b>Институт химии, АНМ</b>
	<b>Секция D: Экологические аспекты в химическом образовании и науке</b>	<b>Государственный Университет Молдовы</b>
	<b>Секция Е: Исследования молодых ученых в области экологической химии и химии окружающей среды</b>	<b>Университет Академии Наук Молдовы</b>
11:00-11:30	Перерыв на чай/кофе	В местах проведения секций
<b>11:30-13:00</b>	<b>Продолжение работы в секциях</b>	<b>В местах проведения секций</b>
13:00-14:00	Обед	В местах проведения секций
<b>14:00-15:00</b>	<b>Продолжение работы в секциях</b>	<b>В местах проведения секций</b>
15:00	Отъезд в Академию Наук Молдовы на заключительную сессию и закрытие конференции	С мест проведения секций
<b>15:30-16:00</b>	<b>Обсуждение, рекомендации и закрытие конференции</b>	<b>АНМ Голубой Зал</b>
16:00	Заключительный ужин	АНМ Золотой Зал
	<b>4-5 Марта, 2017</b>	
	<b>Отъезд участников</b>	



The 6<sup>th</sup> International Conference  
**ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017**

**March 2, 2017 Plenary Session-2**

*Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., 2001 MD, Chisinau, Republic of Moldova*

EEC-2017 Plenary Session/Activity		Location
8:00-9:00	Participants Registration	ASM Lobby
9:00-9:30	Conference Opening and Welcome	ASM Blue Hall
9:30-11:00	<b>PLENARY SESSION</b>	ASM Blue Hall
Moderators	<i>Acad., Prof. Gheorghe DUCA, President of the Academy of Sciences of Moldova</i> <i>Acad., Prof. Asaf Haji Oglu HAJIYEV, Secretary General, Parliamentary Assembly of the Black Sea Economic Cooperation (PABSEC)</i>	
9:30-10:00	<b>ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY</b> <i>Acad., Prof. Gheorghe DUCA, President of the Academy of Sciences of Moldova</i>	
10:00-10:15	<b>STATISTICAL DATA ANALYSIS IN ENVIRONMENTAL PROBLEMS</b> <i>Acad., Prof. Asaf Haji Oglu HAJIYEV, Secretary General, Parliamentary Assembly of the Black Sea Economic Cooperation (PABSEC)</i>	
10:15-10:30	<b>NANO TECHNOLOGICAL INNOVATIONS SUPPORTING WATER SAFETY AND SECURITY</b> <i>Prof. Ashok VASEASHTA, International Clean Water Institute, Manassas, VA, U.S.A</i>	
10:30-10:45	<b>QUO VADIS SEPARATION SCIENCES? NEW SOLUTIONS AND CHALLENGES IN ENVIRONMENT MONITORING</b> <i>Prof. Boguslaw BUSZEWSKI, Faculty of Chemistry, Nicolaus Copernicus University in Torun, Poland</i>	
10:45-11:00	<b>CHALLENGES IN GOING GREEN - STUDY CASE: ROMANIA</b> <i>Acad., Prof. Bogdan SIMIONESCU, Vice-President of Romanian Academy, "PetruPoni" Institute of Macromolecular Chemistry, Romania</i>	
11:00	<b>Group Photo</b>	ASM Blue Hall
11:00-11:30	<b>Tea/Coffee</b>	ASM Gold Hall
11:30-13:00	<b>PLENARY SESSION CONTINUATION</b>	ASM Blue Hall
Moderators	<i>Acad., Prof. Serghey ALDOSHIN, Vice President of the Russian Academy of Sciences, Director, Institute of Problems of Chemical Physics, Russia</i> <i>Prof. Gerrit SCHÜÜRMAN, Head of the Department of Ecological Chemistry, Helmholtz-Centre for Environmental Research in Leipzig, Germany</i>	
11:30-11:45	<b>POWER GENERATION FROM LOW-GRADE FUELS AND WASTES PROCESSING USING FILTRATION COMBUSTION</b> <i>Acad., Prof. Serghey ALDOSHIN, Vice President of the Russian Academy of Sciences, Director, Institute of Problems of Chemical Physics, Russia</i>	
11:45-12:00	<b>IMPACT OF PETROL PRODUCTS TO THE ENVIRONMENT</b> <i>Acad., Prof. Ibrahim GULIYEV, Director of the Institute of Gas and Petrol, Azerbaijan</i>	
12:00-12:15	<b>PREDICTIVE ASSESSMENT OF THE HUMAN AND ENVIRONMENTAL TOXICITY OF CHEMICAL SUBSTANCES</b> <i>Prof. Gerrit SCHÜÜRMAN, Head of the Department of Ecological Chemistry, Helmholtz-Centre for Environmental Research in Leipzig, Germany</i>	
12:15-12:30	<b>GENETIC DAMAGE IN BIOINDICATOR ORGANISMS AND HEAVY METALS CONTENT IN ECOGENOTOXIC STUDIES</b> <i>Acad., Prof. Rouben AROUTIOUNIAN, Academician-Secretary of the Department of Natural Sciences, National Academy of Sciences of Armenia</i>	



12:30-12:45	<b>ECOLOGICAL CHEMISTRY THROUGH POPULAR SCIENTIFIC ARTICLES</b> <i>Prof. Ketevan KUPATADZE, Ilia State University, Tbilisi, Georgia</i>	
12:45-13:00	<b>ENVIRONMENTAL LEGISLATION</b> <i>Prof. Gheorghe AVORNIC, Rector of the University of European Political and Economic Studies „Constantin Stere”, Moldova</i>	
13:00-14:00	Lunch	ASM Gold Hall
14:00-15:30	<b>PLENARY SESSION CONTINUATION</b>	ASM Blue Hall
Moderators	<i>Prof. Yurii SKURLATOV, Institute of Chemical Physics of the Russian Academy of Sciences, Russia</i> <i>Prof. Catherine GOYET, Perpignan University, France</i>	
14:00-14:20	<b>ROLE OF OXIDATION-REDUCTION PROCESSES IN FORMATION OF TOXIC PROPERTIES OF A NATURAL AQUEOUS ENVIRONMENT</b> <i>Prof. Yurii SKURLATOV, Institute of Chemical Physics of the Russian Academy of Sciences, Russia</i>	
14:20-14:40	<b>MICROFILTRATION CERAMIC MEMBRANES BASED ON NATURAL SILICON DIOXIDE</b> <i>Acad., Prof. Vladimir AGABEKOV, Director of the Institute of Chemistry of New Materials of the National Academy of Sciences of Belarus</i>	
14:40-15:00	<b>ASSESSING LONG-TERM VARIATION OF OCEAN ACIDIFICATION DUE TO ANTHROPOGENIC CARBON PENETRATION IN SEAWATER</b> <i>Prof. Catherine GOYET, Perpignan University, France</i>	
15:00-15:15	<b>INNOVATIVE PROCESSES OF TREATING OF THE UNDERGROUND WATERS IN DRINKING PURPOSES</b> <i>Corr.mem., Prof. Tudor LUPASCU, Director of the Institute of Chemistry ASM, Moldova</i>	
15:15-15:30	<b>SHIELDING COMPOSITE MATERIALS FOR COMPUTER ELECTROMAGNETIC RADIATION AND RISK ASSESSMENT</b> <i>Prof. Igor CRETESCU, "Gheorghe Asachi" Technical University of Iasi, Romania</i>	
15:30-16:00	Tea/Coffee	ASM Gold Hall
16:00-17:30	<b>PLENARY SESSION CONTINUATION</b>	ASM Blue Hall
Moderators:	<i>Acad., Prof. Mykola KARTEL, Chuiko Institute of Surface Chemistry, Academician-Secretary of the Department of Chemical Sciences of the National Academy of Sciences of Ukraine, Kiev, Ukraine</i> <i>Prof. Boris BOINCEAN, „Selectia” Research Institute of Field Crops, Alecu Russo Balti State University, Moldova</i>	
16:00-16:15	<b>TECHNOLOGY OF BIOFUEL PRODUCTION FROM ALTERNATIVE RENEWABLE RAW MATERIALS SOURCES</b> <i>Prof. Alexander GARABADZHIU, Saint-Petersburg State Institute of Technology, Russia</i>	
16:15-16:30	<b>OBTAINING OF LIGNOCELLULOSE BIOSORBENTS MODIFIED WITH INORGANIC NANOCLUSTERS</b> <i>Acad., Prof. Mykola KARTEL, Chuiko Institute of Surface Chemistry, Academician-Secretary of the Department of Chemical Sciences of the National Academy of Sciences of Ukraine, Kiev, Ukraine</i>	
16:30-16:45	<b>DETOXIFICATION OF SOIL CONTAMINATED WITH COMPONENTS OF LIQUID ROCKET FUEL BY SORBENT BASED ON CONCENTRATE OF SHUNGITE</b> <i>Prof. Sergei EFREMOV, Center of Physical Chemical Methods of Research and Analysis of al-Farabi Kazakh National University, Kazakhstan</i>	
16:45-17:00	<b>EVALUATION OF THE CONTRIBUTION OF THE "GREAT CARBON TRACKER" IN THE DILUTION OF ATMOSPHERIC RADIOCARBON EMISSIONS</b> <i>Prof. Sergey TRAVIN, Institute of Chemical Physics of the Russian Academy of Sciences, Russia</i>	
17:00-17:15	<b>GREEN CHEMISTRY IN POLYMER SYNTHESIS &amp; ENVIRONMENTALLY FRIENDLY PROCESSING</b> <i>Prof. Marc J.M. ABADIE, University of Montpellier, France</i>	
17:15-17:30	<b>CROP NUTRITION IN SUSTAINABLE AGRICULTURE</b> <i>Prof. Boris BOINCEAN, „Selectia” Research Institute of Field Crops, Alecu Russo Balti State University, Moldova</i>	
18:00	Networking Reception Upon Invitations!	



## The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

### Conference Sessions Program

	EEC-2017 Session/Activity	Location
9:00-9:30	Participants Registration	At the sessions locations
9:30-11:00	<b>Session A: Ecological Chemistry</b>	<b>ASM Blue Hall</b> <i>Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., Chisinau</i>
	<b>Session B: Environmental Chemistry and Engineering</b>	<b>ASM Small Hall</b> <i>Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., Chisinau</i>
	<b>Session C: Green Chemistry</b>	<b>Central Scientific Library "A. Lupan"</b> <i>Conference Hall, 5A Academiei Str., Chisinau</i>
	<b>Session D: Ecological &amp; Environmental Aspects in Chemical Research and Education</b>	<b>Moldova State University</b> <i>Senate Hall, 2<sup>nd</sup> Floor, 60A Mateevici Str., Chisinau</i>
	<b>Session E: Young Scientists Research in Ecological &amp; Environmental Chemistry</b>	<b>University ASM</b> <i>Conference Hall, 1<sup>st</sup> Floor, 3/2 Academiei Str., Chisinau</i>
11:00-11:30	Tea/Coffee	At the sessions locations
11:30-13:00	Work in Sessions: continuation	At the session locations
13:00-14:00	Lunch	At the sessions locations
14:00-15:00	Work in Sessions: continuation	At the session locations
15:30-16:00	Conference Conclusions and Recommendations	<b>ASM Blue Hall</b> <i>Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., Chisinau</i>
16:00	Closing Reception	<b>ASM Gold Hall</b> <i>Academy of Sciences of Moldova, 1 Stefan cel Mare Blvd., Chisinau</i>





The 6<sup>th</sup> International Conference  
ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

**Session A: Ecological Chemistry**

*Blue Hall of the Academy of Sciences of Moldova (ASM),  
1 Stefan cel Mare Blvd., Chisinau, Republic of Moldova*

EEC-2017 Session A Activities		Location
9:00-9:30	Participants Registration	ASM Lobby
9:30-9:40	<b>PARTICIPANTS WELCOME:</b> <i>Acad., Prof. Gheorghe DUCA, President of the Academy of Sciences of Moldova</i>	
9:40-11:00	<b>MODERATORS:</b> <i>Dr. Olga BELYAEVA, Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i> <i>Dr. Tatiana TUGUI, Environmental Pollution Prevention Office, Moldova</i>	
PRESENTATIONS		
9:40-9:50	<b>ECOGEOCHEMICAL STUDIES AND SOILS HEAVY METALS HEALTH RISK ASSESSMENT IN MINING REGION</b> <i>Dr. Olga BELYAEVA, Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>	
9:50-10:00	<b>INVENTORY OF MERCURY RELEASES IN THE REPUBLIC OF MOLDOVA</b> <i>Dr. Tatiana TUGUI, Environmental Pollution Prevention Office, Moldova</i>	
10:00-10:10	<b>HEAVY METALS POTENTIAL ECOLOGICAL AND HEALTH RISK ASSESSMENT IN YEREVAN'S TOPSOIL (ARMENIA)</b> <i>Dr. Gevorg TEPANOSYAN, The Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>	
10:10-10:20	<b>POLLUTION OF THE FOOD CHAIN AND ENVIRONMENT BY PHTHALATES FROM POLYMERS MATERIALS</b> <i>Prof. Rodica STURZA, Technical University of Moldova</i>	
10:20-10:30	<b>EXPEDIENCY OF BIOLOGY ACTIVITY PROVIDING DURING THE MODIFICATION AT THE PROCESSES OF SECONDARY TREATMENT OF POLYMERS</b> <i>Dr. Rahima MAMMADOVA, Azerbaijan State Pedagogical University, Azerbaijan</i>	
10:30-10:40	<b>CORRELATIONS BETWEEN ECO-TOXICITY AND CHARACTERISTICS OF SOME INSECTICIDES</b> <i>Dr. Alina Maria PETRESCU, West University of Timisoara, Faculty of Chemistry, Biology, Geography, Romania</i>	
10:40-10:50	<b>PHYSICO-CHEMICAL AND CHEMICAL-BIOLOGICAL PROCESSES THAT UNDERLIE THE ACTION OF PESTICIDES ON ECOSYSTEMS AND HUMAN</b> <i>Dr. Elena SARATOVSKIKH, Institute of Problem of Chemical Physics, Russian Academia of Science, Russian Federation</i>	
10:50-11:00	<b>ANCHORED DIOXO-MO-COMPLEX AS PHOTOCATALYST IN OXIDATION OF HALOGEN DERIVATIVES OF AROMATIC HYDROCARBONS</b> <i>Dr. Loretta MANUCHAROVA, Nalbadyan Institute of Chemical Physics, NAS of Armenia</i>	



11:00-11:30	Tea/Coffee	ASM Gold Hall
<b>11:30-13:00</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Prof. Grigoryi IVACHNYUK, SPb Technological Institute, Russia</i> <i>Dr. David PIPOYAN, Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>	
11:30-11:40	<b>SURFACE ENHANCED SPECTROSCOPY IN ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY</b> <i>Prof. Galina DOVBESHKO, Institute of physics National Academy of Sciences of Ukraine</i>	
11:40-11:50	<b>RISK ASSESSMENT OF POPULATION EXPOSURE TO TOXIC TRACE ELEMENTS VIA CONSUMPTION OF VEGETABLES AND FRUITS GROWN IN FARMLANDS UNDER THE IMPACT OF MINING INDUSTRY</b> <i>Dr. David PIPOYAN, Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>	
11:50-12:00	<b>NANOTECHNOLOGICAL AND ELECTROPHYSICAL INNOVATIONS IN SAFETY PROVISION</b> <i>Prof. Grigoryi IVACHNYUK, SPb Technological Institute, Russia</i>	
12:00-12:10	<b>KINETIC AND THERMODYNAMIC STUDIES OF THE Co(II) AND Ni(II) IONS REMOVAL FROM AQUEOUS SOLUTIONS BY Ca-Mg PHOSPHATE SORBENTS</b> <i>Dr. Andrei IVANETS, Institute of General and Inorganic Chemistry, NAS Belarus</i>	
12:10-12:20	<b>EFFECTS OF GEMFIBROZIL AND <math>\beta</math>-ESTRADIOL ON MINERAL ELEMENTS UPTAKE IN TRITICUM AESTIVUM L.</b> <i>Dr. Ertuğrul FİLİZ, Düzce University, Turkey</i>	
12:20-12:30	<b>MEASURES AGAINST GLOBAL EXPOSURE TO POLYCHLORINATED NAPHTHALENES</b> <i>Dr. Svitlana SUKHOREBRA, Stockholm Convention POPRC Ex-Member, Kyiv, Ukraine</i>	
12:30-12:40	<b>ASSESSMENT OF ECOLOGICAL STATUS OF RIVER WITH ARMENIAN WATER QUALITY INDEX</b> <i>Mr. Arsen SIMONYAN, Yerevan State University, Armenia</i>	
12:40-12:50	<b>LEAD-EXPOSURE ASSESSMENT OF HUMAN HEALTH</b> <i>Ms. Elena JARDAN, National Center of Public Health, Moldova</i>	
12:50-13:00	<b>GROWTH OF CELLS METHYLOCOCCUS CAPSULATUS (M) UNDER CONDITIONS OF EXCESS AND DEFICIENCY OF COPPER IN GROWTH MEDIUM</b> <i>Ms Lidiya AVDEEVA, Institute of Problems of Chemical Physics RAS, Russia</i>	
13:00-14:00	Lunch	ASM Gold Hall
<b>14:00-15:30</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Dr. Elena KORNILOVA, North-Caucasian Social Institute, Stavropol, Russia</i> <i>Dr. Etem OSMA, Erzincan University, Turkey</i>	
14:00-14:10	<b>MIGRATION OF MACRO- AND MICROELEMENTS IN THE ECOSYSTEMS OF THE DNIESTER RIVER</b> <i>Prof. Elena ZUBCOV, Institute of Zoology ASM, Moldova</i>	
14:10-14:20	<b>THE STUDY OF THE CHEMICAL COMPOSITION OF NATURAL MINERAL WATERS OF DIFFERENT ORIGINS OF THE REPUBLIC OF MOLDOVA</b> <i>Dr. Elena KORNILOVA, North-Caucasian Social Institute, Stavropol, Russia</i>	
14:20-14:30	<b>USAGE ONE OF THE PRINCIPLES CHEMICAL COMMUNICATION OF INSECTS FOR BIOCONTROL ORCHARD PLUM</b> <i>Dr. Natalia RAILEANU, Institute of Genetics, Physiology and Plant Protection ASM, Moldova</i>	





14:30-14:40	<b>INVESTIGATION OF EFFECTS OF ACETAMINOPHEN AND CAFFEINE ON MINERAL ELEMENT UPTAKE IN TRITICUM AESTIVUM L.</b> <i>Dr. Etem OSMA, Erzinan University, Turkey</i>
14:40-14:50	<b>SYNTHESIS AND ANTILEUKAEMIA ACTIVITY OF N-(2,4-DIMETHYLPHENYL) HYDRAZINECARBOTHIOAMIDE AND ITS AZOMETHINE DERIVATIVES</b> <i>Ms. Tatiana ERHAN, Moldova State University, Moldova</i>
14:50-15:00	<b>MODIFICATION OF SORBENTS TO REDUCE TOXICITY OF WOOD-GLUED COMPOZITE MATERIALS</b> <i>Ms Tatiana KULKOVA, A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Russia</i>
15:00-15:10	<b>X-RAY CHARACTERIZATION OF BIS[2-(2H-BENZOTRIAZOL-2-YL)-4,6-BIS(1-METHYL-1-PHENYLETHYL)PHENOLATO]PALLADIUM(II) COMPLEXES</b> <i>Ms. Olesia CUZAN, Institute of Chemistry ASM, Moldova</i>
15:10-15:20	<b>Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session A</b>
15:30-16:00	<b>Conference Conclusions and Recommendations</b> <b>ASM Blue Hall</b> <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
16:00	<b>Closing Reception</b> <b>ASM Gold Hall</b> <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
9:00-16:00	<b>Poster session is available during the Session A</b> <b>ASM Blue hall</b>
<b>POSTERS</b>	<b>STUDY THE PROCESS OF INHIBITION OF INDAPAMIDE NITROSATION BY DIHYDROXYFUMARIC ACID - DNA CO-POLYMER</b> <i>Maria GONTA, Gheorghe DUCA, E. SIRBU, Moldova</i>
	<b>ASSESSMENT OF HEAVY METALS IN FOODS OF ANIMAL ORIGIN IN CENTRAL TRANSYLVANIA, ROMANIA</b> <i>Oana CADAR, Tatiana STRATULAT, Mirela MICLEAN, Alexandra HOAGHIA, Claudiu TANASELIA, Aliona MEREUTA, Romania, Moldova</i>
	<b>ECOLOGICAL CHEMISTRY OF THE NATURAL WATERS</b> <i>Viorica GLADCHI, Moldova</i>
	<b>A COMPLEX ECOLOGICAL AND GEOCHEMICAL ASSESSMENT OF HEAVY METAL DISTRIBUTION IN SOILS OF CITY OF GYUMRI (ARMENIA)</b> <i>Lilit SAHAKYAN, Gevorg TEPANOSYAN, Mkhitar KAFYAN, Armen SAGHATELYAN, Armenia</i>
	<b>ADVANTAGES OF MODIFICATION OF EXPLOITED LDPE WITH NANOSIZE BIOLOGICALLY ACTIVE SUBSTANCES</b> <i>Rahima MAMMADOVA, Oktay AKPEROV, Azerbaijan</i>
	<b>RESPONSE OF SOIL PHOSPHATASES TO CONTAMINATED WITH CREOSOTE</b> <i>Arkadiusz TELESIŃSKI, Martyna ŚNIOZSEK, Teresa KRZYŚKO-LUPICKA, Krystyna CYBULSKA, Kornel CURYŁO, Poland</i>
	<b>HYDROCHEMISTRY OF A SMALL RIVER IN A BIG CITY: RIVER HRAZDAN AND CITY OF YEREVAN (ARMENIA)</b> <i>Gayane BABAYAN, G.A. SAHAKYAN, Armenia</i>
	<b>CHLORO-ALKALINE INDEX OF SPRINGS WATER</b> <i>Maria SANDU, Sergiu TURCAN, Moldova</i>
	<b>BIOASSAY AND ESTIMATION OF THE TOXICITY OF METALLOORGANIC COMPOUNDS IMPACTING THE POPULATION OF PARAMECIUM CAUDATUM</b> <i>Ion TODERAŞ, Aurelian GULEA, Elena ROŞCOV, Olga GARBUZ, Moldova</i>
	<b>THE EFFECTS OF GEMFIBROZIL AND β-ESTRADIOL ON ELECTROLYTE LEAKAGE IN TRITICUM AESTIVUM L.</b> <i>Etem OSMA, Mijgen ELVEREN, Turkey</i>



**SUPRAMOLECULAR ARCHITECTURES OF IONIC CO-CRYSTALS BASED ON 4-NITROBEZOIC ACID AND ALKANOLAMINES**

*Manuela CRISAN, Mihaela PETRIC, Nicoleta PLESU, Elena MELNIC, Lilia CROITOR, Victor KRAVTSOV, Pavlina BOUROSH, Romania, Moldova*

**ANTIMICROBIAL ACTIVITY OF EXTRACTS FROM FORESTRY WASTES**

*Tudor LUPASCU, Nina TIMBALIUC, Natalia PETROV, Lucian LUPASCU, Moldova*

**INFLUENCE OF HEAVY METALS ON INVERTEBRATE ORGANISMS FROM DIVERSE TYPES OF ECOSYSTEMS**

*Vition PANTELEI, Moldova*

**(ECO)TOXICITY OF ISOQUINOLINIUM 2,2'-THIODIACETATE TO ORGANISMS FROM DIFFERENT TROPHIC LEVELS**

*Robert BICZAK, Barbara PAWŁOWSKA, Marika TUREK, Piotr BAŁCZEWSKI, Bernard MARCINIAK, Małgorzata DESKA, Ewa RÓŻYCKA-SOKOŁOWSKA, Poland*

**THE USE OF INFRARED SPECTROSCOPY IN THE INVESTIGATION OF HUMAN URINARY STONE CONTAINING WHEWELLITE**

*Diana SHEPEL, Pavel BANOV, Ekaterina VIERU, Moldova*

**A INFRARED SPECTROSCOPY INVESTIGATION OF HUMAN URINARY STONE CONTAINING WHITLOCKITE**

*Diana SHEPEL, Pavel BANOV, Ekaterina VIERU, Moldova*

**HEAVY METALS POTENTIAL ECOLOGICAL AND HEALTH RISK ASSESSMENT IN YEREVAN'S TOPSOIL (ARMENIA)**

*Gevorg TEPANOSYAN, Lilit SAHAKYAN, Nairuhi MAGHAKYAN, Armen SAGHATELYAN*

**COMPARISON OF PHYTOTOXICITY OF BIS(ALKYLAMMONIUM) 2,2'-THIODIACETATES**

*Barbara PAWŁOWSKA, Robert BICZAK, Marika TUREK, Piotr BAŁCZEWSKI, Bernard MARCINIAK, Małgorzata DESKA, Ewa RÓŻYCKA-SOKOŁOWSKA, Poland*

**APPLICATION OF INTEGRATED METHOD FOR WATER QUALITY ASSESSMENT OF RIVER BISTRITA ON THE SECTION PIATRA-NEAMT – BACAU**

*Claudia TOMOZEI, Oana IRIMIA, Valentin NEDEFF, Narcis BARSAN, Mirela Panainte LEHADUS, Alina COCHIORCA, Romania*

**SILICA DOPED WITH SILVER OR CERIUM IONS AS NOVEL CATALYSTS FOR OXIDATIVE DEGRADATION OF ORGANIC COMPOUNDS**

*Evgeniya TARASENKO, Olga LEBEDEVA, Tram THI THUI, Olga NESTROYNAYA, Russia*

**ASSESSMENT OF THE SELF-PURIFICATION CAPACITY OF VALEA MORILOR'S LAKE**

*Elena BUNDUCHI, Nelly GOREACEVA, Maria LUTENCO, Moldova*

**ROLE OF GLUTATHIONE IN THE PHOTOCHEMICAL SELF-PURIFICATION PROCESSES OF WATER SYSTEMS**

*Angela LIS, Viorica GLADCHI, Gheorghe DUCA, Moldova*

**STUDIES AND RESEARCH ON PHRAGMITES AUSTRALIS' (COMMON REED) ABSORPTION CAPACITY OF HEAVY METALS FROM THE SOIL IN ROMAN CITY, ROMANIA**

*Alexandra-Dana CHIȚIMUȘ, Valentin NEDEFF, Emilian MOȘNEGUȚU, Narcis BÂRSAN, Oana IRIMIA, Oana MUSCALU, Romania*

**EXPERIMENTAL RESULTS REGARDING THE GROUNDWATER QUALITY IN BACAU CITY, ROMANIA**

*Oana IRIMIA, Claudia TOMOZEI, Valentin NEDEFF, Mirela PANAINTE-LEHADUS, Dana-Alexandra CHITIMUS, Florina FABIAN, Romania*

**A SMALL-SCALE SEQUENCING BATCH REACTOR TREATMENT SYSTEM, A PERSPECTIVE FOR POOR WASTEWATER INFRASTRUCTURE REGIONS**

*Narcis BARSAN, Valentin NEDEFF, Antonina TEMEA, Emilian MOSNEGUTU, Alexandra Dana CHITIMUS, Claudia TOMOZEI, Romania*



**THE PAIRING OF VEGETABLE WITH 5-FLUOROURACIL**

*Radu CEBOTARI, Moldova*

**NON-ISOTHERMAL KINETICS OF DEHYDRATION, COMBUSTION AND ACTIVATION OF NUT SHELLS WITH PHOSPHORIC ACID**

*Oleg PETUHOV, Tudor LUPASCU, Moldova*

**APPLICATION OF THERMAL ANALYSIS IN MODELING PROCESSES OF OBTAINING ACTIVATED CARBON**

*Oleg PETUHOV, Tudor LUPASCU, Moldova*

**N<sub>2</sub>S<sub>2</sub> BASED MOLECULAR SYSTEMS FOR ELECTROCATALYTIC PROTON REDUCTION**

*Tatiana STRAISTARI, Marius REGLIER, Constantin TURTA, Moldova, France*

**IN VITRO ANTIPROLIFERATIVE ACTIVITY AND ANTIOXIDANT CAPACITY OF NEW ORGANOMETALLIC COORDINATION COMPOUNDS, RESULTS CORRELATION ANALYSIS**

*Aurelian GULEA, Valentin GUDUMAC, Olga GARBUZ, Lilia ANDRONACHE, Moldova*

**COMPARATIVE EVALUATION OF THE EFFECTIVENESS OF EURASIAN NATURAL BALNEOLOGICAL HYDROMINERAL RESOURCES ACCORDING TO THE BIOCHEMICAL STUDIES OF BLOOD**

*Elena KORNILOVA, Nikolay KORNILOV, Ivan CHUKSIN, Russia*

**IMPACTS OF TRIAL CALCIUM CARBONATE DOSING FOR pH MITIGATION ON CHEMICAL AND ECOLOGICAL QUALITY OF THE WEST DART RIVER**

*Lauren DAWSON, Sean COMBER, Richard SANDFORD, Alan TAPPIN, Bruce STOCKLEY, UK*





## The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

Small Conference Hall of the Academy of Sciences of Moldova (ASM),  
1 Stefan cel Mare Blvd., Chisinau, Republic of Moldova

### Session B: Environmental Chemistry and Engineering

EEC-2017 Session B		Location
9:00-9:30	Participants Registration	ASM Small Hall
9:30-9:40	<b>PARTICIPANTS WELCOME</b> <i>Ms. Violeta IVANOV, President of the Committee for Public Administration, Regional Development, Environment and Climate Change, Parliament of Republic of Moldova</i>	
9:40-11:00	<b>MODERATORS:</b> <i>Prof. Boguslaw BUSZEWSKI, Faculty of Chemistry, Nicolaus Copernicus University in Torun, Poland</i> <i>Dr. Gheorghe IONITA, National Research Institute for Cryogenics and Isotopic Technologies-ICSI, Ramnicu Valcea, Romania</i>	
<b>PRESENTATIONS</b>		
9:30-9:40	<b>MOLECULAR STRUCTURE AND PROPERTIES OF WATER, AND ENVIRONMENT PROBLEMS</b> <i>Prof. Ion GERU, Institute of Chemistry, Academy of Sciences of Moldova, Moldova</i>	
9:40-9:50	<b>ASPECTS CONCERNING PREPARATION OF SUITABLE CATALYST FOR HEAVY WATER DETRITATION</b> <i>Dr. Gheorghe IONITA, National Research Institute for Cryogenics and Isotopic Technologies-ICSI, Ramnicu Valcea, Romania</i>	
9:50-10:00	<b>ECOLOGICAL ASPECTS OF THE IMPACT OF THE INDUSTRIAL OBJECTS ON THE WATER OF THE TRANSBOUNDARY RIVERS OF THE CENTRAL ASIA</b> <i>Prof. Inom NORMATOV, Institute of Water problems, Hydropower and Ecology of the Academy of Sciences of the Republic of Tajikistan, Dushanbe, Tajikistan</i>	
10:00-10:10	<b>THE SONOCHEMICAL PROCESSES FOR WASTEWATER TREATMENT, PIONEER WORKS IN ROMANIA</b> <i>Dr. Mihaela IORDACHE, INCD ECOIND, Ramnicul Valcea, Romania</i>	
10:10-10:20	<b>THE FUTURE ROLE OF ACTIVE CARBONS</b> <i>Prof. Victor MUKHIN, Joint stock company «ENPO «Neorganika», Elektrostal, Russia</i>	
10:20-10:30	<b>POLYMERIC FIBROUS NONWOVENS AS SORBENT MATERIALS FOR OIL SPILL CLEANUP</b> <i>Dr. Corneliu COJOCARU, Petru Poni Institute of Macromolecular Chemistry, Romania</i>	
10:30-10:40	<b>FEATURES OF TRANSFORMATION OF REDUCED SULFUR IN AQUEOUS MEDIUM WITH OXYGEN, HYDROGEN PEROXIDE AND METAL IONS OF VARIABLE VALENCE</b> <i>Dr. Viacheslav SHVYDKYI, Emanuel Institute of Biochemical Physics, Russian Academy of Science, Russia</i>	
10:40-10:50	<b>BIOGAS UPGRADING USING AN INTEGRATED CLOSED SYSTEM</b> <i>Ms. Ana Maria GALAN, The National R&amp;D Institute for Chemistry and Petrochemistry, Romania</i>	
10:50-11:00	<b>REMOVAL EFFICIENCIES OF A HYBRID CONSTRUCTED WETLAND TREATING AGRICULTURAL WASTEWATERS UNDER THE DIFFERENT LOADING STRATEGIES</b> <i>Mr. Michal ŠEREŠ, Dekonta, a.s.; University of Chemistry and Technology Prague, Czech Republic</i>	



11:00-11:30	Tea/Coffee	ASM Gold Hall
<b>11:30-13:00</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Prof. Anatolie SIDORENCO, Institute of Electronic Engineering and Nanotechnologies ASM, Moldova</i> <i>Prof. Ashok VASEASHTA, International Clean Water Institute, Manassas, VA, USA</i>	
11:30-11:40	<b>ENVIRONMENTAL-FRIENDLY TECHNOLOGY OF SEEDS ELECTROMAGNETIC TREATMENT FOR STIMULATION OF THE PLANTS DEVELOPMENT</b> <i>Prof. Anatolie SIDORENCO, Institute of Electronic Engineering and Nanotechnologies ASM, Moldova</i>	
11:40-11:50	<b>STRUCTURAL AND CHEMICAL MODIFICATION OF THE INDUSTRIAL POLYMERS</b> <i>Prof. Alexandr BILDYUKEVICH, Institute of Physical Organic Chemistry of the National Academy of Sciences of Belarus, Belarus</i>	
11:50-12:00	<b>IMPROVING SURFACE WATER QUALITY ASSESSMENT METHODS BY SEMIQUANTITATIVE AND MULTIELEMENTAL SPECTROMETRIC METHODS</b> <i>Dr. Claudiu TĂNĂSELIA, INCDO-INOE 2000 ICIA, Cluj-Napoca, Romania</i>	
12:00-12:10	<b>TRANSFORMATION OF POLYCYCLIC AROMATIC HYDROCARBONS AT THE DEGRADATION OF OIL</b> <i>Prof. Islam MUSTAFAYEV, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>	
12:10-12:20	<b>PHOTOCATALYTIC SEMICONDUCTORS BASED NANOCOMPOSITE MATERIALS SYNTHESIZED BY LASER TECHNIQUES</b> <i>Dr. Angela DATCU, National Institute for Lasers, Plasma and Radiation Physics, Romania</i>	
12:20-12:30	<b>MAGNETIC NANOPARTICLES AS SPECIFIC SORBENTS FOR THE REMOVAL OF DYES FROM AQUEOUS SOLUTIONS</b> <i>Dr. Simona Gabriela MUNTEAN, Institute of Chemistry Timisoara of the Romanian Academy, Romania</i>	
12:30-12:40	<b>ION EXCHANGER/CaCO<sub>3</sub> COMPOSITES AS SORBENTS FOR IONIC MOLECULES</b> <i>Dr. Marcela MIHAI, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</i>	
12:40-12:50	<b>CONTENT AND CHARACTERISTICS OF WASTE OF OIL TRANSPORTATION BY PIPELINES</b> <i>Dr. Nigar GULIYEVA, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>	
12:50-13:00	<b>ECOFRIENDLY METHOD FOR PRODUCTION OF BIODEGRADABLE HYDROPHOBIC STARCH FILMS</b> <i>Mrs. Arkadiusz ZARSKI, Jan Dlugosz University in Czestochowa, Poland</i>	
13:00-14:00	Lunch	ASM Gold Hall
<b>14:00-15:30</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Acad., Prof. Vladimir AGABEKOV, Director of the Institute of Chemistry of New Materials of the National Academy of Sciences of Belarus</i> <i>Dr. Grigor TATISHVILI, "R. Agladze" Institute of Inorganic Chemistry and Electrochemistry of the Javakhishvili Tbilisi State University, Georgia</i>	
14:00-14:10	<b>MULTI-USE FIBROUS SORBENT FOR ELIMINATION OF EMERGENCY SPILLS OF OIL AND OIL-PRODUCTS</b> <i>Acad., Prof. Vladimir AGABEKOV, Director of the Institute of Chemistry of New Materials of the National Academy of Sciences of Belarus</i>	



14:10-14:20	<b>LOW-TEMPERATURE FUEL CELL FOR PURIFICATION OF WATERS FROM HYDROGEN SULFIDE</b> <i>Dr. Grigor TATISHVILI, "R. Agladze" Institute of Inorganic Chemistry and Electrochemistry of the Javakhishvili Tbilisi State University, Georgia</i>
14:20-14:30	<b>STUDY OF SORPTION BEHAVIOUR OF Sr(II) IONS ONTO MANGANESE OXIDES WITH LAYERED AND TUNNEL STRUCTURES</b> <i>Dr. Andrei IVANETS, Institute of General and Inorganic Chemistry, NAS Belarus</i>
14:30-14:40	<b>THE DYNAMICS OF CHANGES IN CHLORINE CONCENTRATIONS IN TREE LEAVES IN YEREVAN</b> <i>Dr. Gayane NERSISYAN, The Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>
14:40-14:50	<b>CHANGES IN THE STRUCTURAL COMPOZITION OF THE DEGRADATED OIL AT THE WATER SURFACE</b> <i>Ms. Ayten SAMADOVA, Baku State University, Azerbaijan</i>
14:50-15:00	<b>Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session B</b>
15:30-16:00	<b>EEC-2017 Conference Conclusions and Recommendations</b> <b>ASM Blue Hall</b> <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
16:00	<b>Closing Reception</b> <b>ASM Gold Hall</b> <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
9:00-16:00	<b>Poster session is available during the Session B</b> <b>At the session location</b>
<b>POSTERS</b>	<b>OPTIMIZATION OF WATER CONSUMPTION IN GALVANIC INDUSTRY</b> <i>Nikolai BEREZIN, Irina GRIGORYEVA, Marat MAVLETOV, Aynur YARULLIN, Russia</i>
	<b>ROLE OF COMPLEX FORMATION AND PULSE CURRENT IN PROCESSES OF ELECTROCHEMICAL DOPING OF GALVANIC</b> <i>Jeanne MEZHEVICH, Nikolai BEREZIN, Irina GRIGORYEVA, Russia</i>
	<b>COMPARATIVE STUDY OF ELECTROFLOTATION, COAGULATION, AND ELECTROFLOTOCOAGULATION METHODS OF PLASTICIZERS (DMPA) IN THE PRESENCE OF TEXTILE DYES</b> <i>Maria GONTA, Gheorghe DUCA, Viorica IAMBARȚEV, Vera MATVEEVICI, Moldova</i>
	<b>NICKEL CEMENTATION FROM AMMONIACAL SOLUTION BY SUSPENDED ALUMINUM PARTICLES</b> <i>Irina GRIGORYEVA, Jeanne MEZHEVICH, Alexander DRESVYANNIKOV, Russia</i>
	<b>TREATMENT OF CHROMIUM ELECTROPLATING EFFLUENTS BY CHEMICAL AND ELECTROCHEMICAL COAGULATION PROCESS</b> <i>Konstantinos DERMENTZIS, Greece</i>
	<b>REMOVAL OF NYSTATIN FROM AQUEOUS SOLUTION BY ADSORPTION ONTO NANOHYDROXYAPATITE</b> <i>Simona ILISEI, Gabriela CIOBANU, Constantin LUCA, Romania</i>
	<b>CLEANING OF WATERS OF DIFFERENT ORIGIN FROM NONIONOGENIC ORGANIC SURFACTANTS BY LOW-TEMPERATURE PLASMA ELECTROLYSIS</b> <i>Valeriy KUBLANOVSKY, Alexander KRAVCHENKO, Ukraine</i>
	<b>ADSORPTION OF SR<sup>2+</sup> IONS FROM WATER SOLUTIONS ON ACTIVE CARBON CAN-7 IN DYNAMIC CONDITIONS</b> <i>Mihai CIOBANU, Tudor LUPASCU, Tatiana MITINA, Moldova</i>
	<b>CENTRIFUGATION – AN EFFECTIVE METHOD FOR INTENSIFYING ADSORPTION PROCESS IN WATER TREATMENT</b> <i>Alexei MAFTULEAC, Nina TIMBALIUC, Moldova</i>



**ACOUSTIC SOUNDING OF ATMOSPHERE BY HAIL-SUPPRESSION SYSTEM**

Gagik AYVAZYAN, Razmik BARSEGHYAN, Arman VARDANYAN, Armenia

**REMEDIATION OF POPS POLLUTED SITES IN REPUBLIC OF MOLDOVA**

Oleg BOGDEVICH, Elena CULIGHIN, Tudor LUPASCU, Moldova

**THE PROCESS OF THE RADIOACTIVE ELEMENTS EXTRACTION FROM WASTEWATER BY LOW-TEMPERATURE PLASMA ELECTROLYSIS**

Alexander KRAVCHENKO, Alexander PIVOVAROV, Valeriy KUBLANOVSKY, Oksana BERSIROVA, Ukraine

**STUDY OF RARE EARTH - DOPED FERRITES NANOPARTICLES MODIFIED WITH CHITOSAN SHELL AND THEIR SORPTIVE PROPERTIES FOR HEAVY METAL IONS**

Maria IGNAT, Samoila PETRISOR, Iulian ASAFTEI, Corneliu COJOCARU, Liviu SACARESCU, Valeria HARABAGIU, Romania

**DISTRIBUTION AND FORMS OF SOME TRACE ELEMENTS IN DELLUVIAL TYPICAL SOILS FROM REPUBLIC OF MOLDOVA**

Tamara LEAH, Moldova

**ESTIMATING OF IMPACT ON PEOPLE'S HEALTH OF AIR POLLUTION EMISSIONS FROM TRANSPORT IN URBAN AREA IN MOLDOVA**

Tatiana STRATULAT, Grigore FRIPTULEAC, Raisa MIGALATIEV, Elena BOITU, Moldova

**EVALUATION OF AN ADSORBENT ON THE BASE OF DIATOMITE TO REDUCE THE RISK OF EUTROPHICATION**

Tatiana DATSKO, Veacheslav ZELENISOV, Moldova

**KINETICS OF SOME FLUOROQUINOLONES OXIDATION BY PERMANGANATE IONS IN BASIC MEDIUM**

Elena TUTOVAN, Tatiana ISAC-GUTUL, Ianina ULCHINA, Irina LENGAS, Moldova

**MODIFICATION OF NANOTUBULAR TiO<sub>2</sub> SURFACE FOR PHOTOCATALYTICAL APPLICATIONS**

Olga COVALIOVA, Moldova

**COPPER-MANGANESE OXIDES CATALYSTS FOR GROUNDWATER PURIFICATION**

Andrei IVANETS, Yaugeniy VARANETS, Tatyana AZAROVA, Belarus

**NON-ACIDIC SYNTHESIS OF PHOSPHATIZED DOLOMITE AND ITS SORPTION BEHAVIOR TOWARDS Pb<sup>2+</sup>, Zn<sup>2+</sup>, Cu<sup>2+</sup>, Cd<sup>2+</sup>, Ni<sup>2+</sup>, Sr<sup>2+</sup> AND CO<sup>2+</sup> IONS IN MULTICOMPONENT AQUEOUS SOLUTION**

Andrei IVANETS, N.V. KITIKOVA, I.L. SHASHKOVA, Y.V. MATRUNCHIK, L.V. KUL'BITSKAYA, M. SILLANPÄÄ, Belarus, Finland, USA

**APPLICATION OF NICKEL-BORIDE COATINGS IN MODERN TECHNOLOGY**

Aynur YARULLIN, Marat MAVLETOV, Nikolai BEREZIN, Irina GRIGORYEVA, Russia

**ADSORBTIVE REMOVAL OF DYES AND SULPHONATED PIGMENTS FROM LEATHER INDUSTRY WASTEWATERS**

Marian DEACONU, Raluca SENIN, Marian CRUDU, Anca ATHANASIU, Mariana MATEESCU, Romania

**THE APPLICATION OF ALIQUAT 336 AS CARRIER IN PROCESSES FOR WASTEWATER TREATMENT CONTAINING HEAVY METALS**

Mariana MATEESCU, Ioneta Codrina BUJANCA, Marian DEACONU, Romania

**ELECTROCHEMICAL SYNTHESIS OF NANODISPERSED MIXED OXIDE SYSTEMS BASED ON ALUMINA**

Leniza KHAYRULLINA, Irina GRIGORYEVA, Ivan MIKHALISHIN, Alexander DRESVYANNIKOV, Russia

**STUDYING OF THE COMPOSITION OF THE SCUM OF ELECTRIC POWER STATIONS**

Tatiana MITINA, Nadejda BONDARENCO, Diana GRIGORAS, Tudor LUPASCU, Moldova



**REMOVAL OF NITRITE IONS FROM NATURAL WATER BY USING AG-5**

*Tatiana GOREACIOC, Raisa NASTAS, Tudor LUPASCU, Vasile RUSU, Moldova*

**INDIRECT ATOMIC ABSORPTION DETERMINATION OF CHLORIDE ION IN COLORED WATER**

*Tudor LUPASCU, Tatiana MITINA, Nadejda BONDARENCO, Diana GRIGORAS, Moldova*

**MAGNETITE/CARBON NANOCOMPOSITES AS SPECIFIC SORBENT FOR WASTEWATERS TREATMENT**

*Maria Andreea NISTOR, Adelina ANDELESCU, Simona Gabriela MUNTEAN, Maria Elena RĂDULESCU-GRAD, Romania*

**DETERMINATION OF ANIONIC AND CATIONIC SURFACTANTS IN REAL SYSTEMS**

*Mrs. Silvia RACOVITA, Moldova*







## The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

### Session C: Green Chemistry

Central Scientific Library "A. Lupan" Conference Hall,  
5A, Academiei Str., Chisinau, Republic of Moldova

EEC-2017 Session/Activity		Location
9:00-9:30	Participants Registration	Central Scientific Library "A. Lupan" Conference Hall
9:30-9:40	<b>PARTICIPANTS WELCOME:</b> <i>Prof. Tudor LUPASCU</i> , Director of the Institute of Chemistry ASM, Moldova	
9:40-11:00	<b>MODERATORS:</b> <i>Prof. Fliur MACAEV</i> , Institute of Chemistry ASM, Moldova <i>Prof. Valentin TERTYKH</i> , Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Ukraine	
<b>PRESENTATIONS</b>		
9:40-9:50	<b>ADSORBENTS BASED ON COMPOSITES OF SILICA WITH AMINO- AND SULFO CONTAINING POLYSACCHARIDES</b> <i>Prof. Valentin TERTYKH</i> , Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Ukraine	
9:50-10:00	<b>IONIC LIQUIDS BASED MATERIALS FOR GREEN CHEMISTRY PROTOCOLS</b> <i>Prof. Fliur MACAEV</i> , Institute of Chemistry ASM, Moldova	
10:00-10:10	<b>CLOSED-CYCLE INTENSIFIED TECHNOLOGY FOR SUSTAINABLE BIOCHEMICAL PRODUCTION OF ALTERNATIVE FUELS FROM AGRICULTURAL WASTES</b> <i>Dr. Olga COVALIOVA</i> , Institute of Chemistry ASM, Moldova	
10:10-10:20	<b>THE HYDROGEN FROM CHEMISTRY TO GREEN ENERGY, ASPECTS FROM ROMANIA</b> <i>Dr. Ioan IORDACHE</i> , National Research & Development Institute for Cryogenics and Isotopic Technologies- ICIT	
10:20-10:30	<b>POSSIBILITIES OF APPLICATION OF SOLID ENERGETIC COMPOSITIONS TO IMPROVE THE LEVEL OF ENVIRONMENTAL SAFETY ASSOCIATED WITH THE USE OF LIQUID-FUELED SPACE LAUNCH VEHICLES</b> <i>Dr. David LEMPERT</i> , Institute of Problems of Chemical Physics, Russian Academy of Sciences, Russia	
10:30-10:40	<b>REACTANT-GOVERNED HYDROGEN ACCUMULATION AS INTERMEDIATE BETWEEN CONVENTIONAL HYDROGEN RESERVOIRS AND FUEL PROCESSORS</b> <i>Dr. Anton MANILOV</i> , Taras Shevchenko National University of Kyiv, Ukraine	
10:40-10:50	<b>STUDY OF POPS CONTAMINATED SITE FOR ENVIRONMENTAL RISK ASSESSMENT AND REMEDIATION IN MOLDOVA</b> <i>Dr. Oleg BOGDEVICH</i> , Institute of Chemistry of the Academy of Sciences of Moldova, Moldova	
10:50-11:00	<b>PREPARATION OF ACTIVATED CARBONS FROM FERN LEAVES FOR CO<sub>2</sub> ADSORPTION</b> <i>Mr. Jaroslaw SERAFIN</i> , West Pomeranian University in Szczecin, Poland	



11:00-11:30	Tea/Coffee	At the Session Location
<b>11:30-13:00</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Prof. Catherine GOYET, Perpignan University, France</i> <i>Prof. Igor POVAR, Institute of Chemistry, Academy of Sciences of Moldova, Moldova</i>	
11:30-11:40	<b>NEW COMPOUNDS FOR THE ENVIRONMENTAL PROTECTION AND FOR THE HUMAN HEALTH OBTAINED FROM THE WINE SECONDARY PRODUCTS</b> <i>Prof. Tudor LUPASCU, Institute of Chemistry ASM, Moldova</i>	
11:40-11:50	<b>ASSESSING LONG-TERM RESPONSE OF SEAWATER TO EXTERNAL PERTURBATIONS SUCH AS ATMOSPHERIC GREENHOUSE GAS AND CONTAMINANTS</b> <i>Prof. Igor POVAR, Institute of Chemistry, Academy of Sciences of Moldova, Moldova</i>	
11:50-12:00	<b>SYNTHESIS AND APPLICATIONS OF TETRANORLABDANE COMPOUNDS WITH HETEROCYCLIC UNITS</b> <i>Dr. Aculina ARICU, Institute of Chemistry ASM, Moldova</i>	
12:00-12:10	<b>OZONOLYSIS OF ALKENES: TRANSFORMATIONS FAR BEYOND C=C CLEAVAGE</b> <i>Dr. Veaceslav KULCITKI, Institute of Chemistry ASM, Moldova</i>	
12:10-12:20	<b>SYNTHESIS OF VANADIUM(V) COMPLEXES AND THEIR USE FOR OXIDATION OF CYCLOHEXANE</b> <i>Dr. Diana DRAGANCEA, Institute of Chemistry ASM, Moldova</i>	
12:20-12:30	<b>CHEMICAL COMPOSITION OF THE ESSENTIAL OIL FROM SATUREJA SUBSPICATA L. GROWING IN MOLDOVA</b> <i>Dr. Alexandru CIOCIRLAN, Institute of Chemistry ASM, Moldova</i>	
12:30-12:40	<b>IMPROVEMENT OF FILTRATION PROPERTIES OF GHIDIRIM DIATOMITE (REPUBLIC OF MOLDOVA)</b> <i>Dr. Larisa POSTOLACHI, Institute of Chemistry ASM, Moldova</i>	
12:40-12:50	<b>PHYTOREMEDIATION OF OIL AND HEAVY METAL CONTAMINATED SOILS OF APHERON PENINSULA</b> <i>Prof. Vagif FARZALIYEV, Acad. A.Guliyev Institute of Chemistry of Additives of National Academy of Sciences of Azerbaijan, Azerbaijan</i>	
12:50-13:00	<b>FUNCTIONALIZED CARBON NANOTUBES AS NEW POTENTIAL GREEN ELECTRODES</b> <i>Mrs. Sandra ŹARSKA, Jan Dlugosz University in Czestochowa, Poland</i>	
13:00-14:00	Lunch	At the Session Location
<b>14:00-15:30</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Prof. Vasilii SHARAGOV, Alecu Russo Balti State University, Moldova</i> <i>Dr. Inga ZINICOVSCAIA, Joint Institute for Nuclear Research, Dubna, Russia</i>	
14:00-14:10	<b>WAYS OF REDUCING TOXICITY OF THE DEALKALIZATION PROCESS OF THE SURFACE LAYERS OF INDUSTRIAL GLASSWARE BY ACID GASES</b> <i>Prof. Vasilii SHARAGOV, Alecu Russo Balti State University, Moldova</i>	
14:10-14:20	<b>SILVER BIOSORPTION BY SPIRULINA PLATENSIS BIOMASS</b> <i>Dr. Inga ZINICOVSCAIA, Joint Institute for Nuclear Research, Dubna, Russia</i>	
14:20-14:30	<b>ENHANCEMENT OF COPPER RESISTANCE OF VITIS VINIFERA L. CV. VICTORIA SEEDLINGS BY THE PLANT GROWTH PROMOTING BACTERIA AND TRACE ELEMENTS</b> <i>Prof. Sofia VELIKSAR, Institute of Genetics, Physiology and Plant Protection, Moldova</i>	



14:30-14:40	<b>ACCELERATION OF SOME DICARBOXIMIDEI GROUPE FUNGICIDE DECAY BY TITANIUM DIOXIDEI ADDITIVE: EXPERIMENTAL EVIDENCE AND QUANTUM-CHEMICAL BACKGROUND OF COMMON MECHANISM</b> <i>Mr. Ivan OSIPOV, Institute of Chemistry ASM, Moldova</i>
14:40-14:50	<b>INFLUENCE OF BENZENE RINGS NUMBER TO THE DISTRIBUTION OF 16EPA PAH AT THE DEGRADATION OF PETROLEUM IN SOIL</b> <i>Mr. Shahin HAJIYEV, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>
14:50-15:00	<b>Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session C</b>
15:00	<b>Departure to ASM for Closing Remarks and Activities</b>
15:30-16:00	<b>EEC-2017 Conference Conclusions and Recommendations</b> <i>ASM Blue Hall Academy of Sciences of Moldova 1 Stefan cel Mare Blvd., Chisinau</i>
16:00	<b>Closing Reception</b> <i>ASM Gold Hall Academy of Sciences of Moldova 1 Stefan cel Mare Blvd., Chisinau</i>
9:00-15:00	<b>Poster session is available during the Session C</b> <i>Central Scientific Library "A. Lupan"</i>
<b>POSTERS</b>	<b>ION EXCHANGE PROPERTIES OF GEORGIAN NATURAL ZEOLITES</b> <i>Vladimer TSITSISHVILI, Nanuli DOLABERIDZE, Spartak UROTADZE, Georgia</i>
	<b>SURFACE PROPERTIES OF BENTONITE LARGUTZA PILLARED WITH ALUMINUM OLIGOMERS</b> <i>Vasile RUSU, Moldova</i>
	<b>LONG TERM ASSESSMENT OF THE HEAVY METALS CONTENT IN ACIDIC SOILS</b> <i>Igor POVAR, Oxana SPINU, Moldova</i>
	<b>MAGNETIC NANOPARTICLES LOADED WITH NATURAL ANTIOXIDANTS FOR BIOMEDICAL APPLICATIONS</b> <i>Lacrămioara LUNGOCI, Narcisa MARANGOCI, Andreea CORCIOVA, Cornelia MIRCEA, Irina ROȘCA, Adrian FIFERE, Mariana PINTEALĂ, Romania</i>
	<b>GROWTH, PHYSIOLOGICAL AND BIOCHEMICAL RESPONSES IN COPPER-TREATED POPLAR PLANTS TO BE EXPLOITED FOR THE PHYTOREMEDIATION BIO-TECHNOLOGY</b> <i>Massimo ZACCHINI, Daniela DI BACCIO, Valentina IORI, Sofia VELIKSAR, Natalia LEMANOVA, Liudvika JUŠKAITE, Audrius MARUŠKA, Fabrizio PIETRINI, Italy, Moldova, Lithuania</i>
	<b>SEQUENTIAL SUPERCRITICAL FLUID EXTRACTIONS OF BIOACTIVE COMPOUNDS FROM TANGERINE AND ORANGE PEEL</b> <i>Mzia TSITSAGI, Vladimer TSITSISHVILI, Ketevan EBRALIDZE, Georgia</i>
	<b>SYNTHESIS AND CRYSTAL STRUCTURE OF NEW ORGANIC LIGAND BASED ON S-METHYLISOLTHIOSEMICARBAZIDE</b> <i>Mihaela ROTARU, Maria COCU, Diana DRAGANCEA, Ion BULHAC, Polina BOUROSH, Moldova</i>
	<b>LIGNIN OZONOLYSIS IN DEEP EUTECTIC SOLVENTS</b> <i>Marina GRINCO, Alic BARBĂ, Nicon UNGUR, Veaceslav KULCIŢKI, Moldova</i>
	<b>NATURAL EXOPOLYSACCHARIDES AS ECOLOGICAL EXCIPIENTS IN DRUG DELIVERY</b> <i>Irina ROSCA, Anca Roxana PETROVICI, Adrian FIFERE, Elena-Laura URSU, Alina NICOLESCU, Andra Cristina BOSTANARU, Mihai MAREȘ, Narcisa MARANGOCI, Mariana PINTEALĂ, Romania</i>



**THE SEMIOCHEMICALS FOR BIORATIONAL GREENHOUSE PEST MANAGEMENT**

*Elena MUNTYAN, Mihail BATCO, Igor IAZLOVETSKY, Moldova*

**EVALUATION OF SYNTHETIC SEMIOCHEMICAL METHYL SALICYLATE FOR IMPROVED CONSERVATION BIOLOGICAL CONTROL OF PESTS IN A PEACH ORCHARD**

*Victoria SUMENCOVA, Mihai BATCO, Alla YAKIMCHIUK, Galina DIURITS, Galina FEODOR, Igori YAZLOVETSKY, Moldova*

**SUNLIGHT INDUCED DECAY OF IPRODION ON TITANIUM DIOXIDE SURFACE LC-MS CHROMATOGRAPHY AND DFT EVIDENCE**

*Yurii GORBACHEV, Natalia GORINCHOY, Ivan OSIPOV, Moldova*

**THERMOANALYTICAL CHARACTERISATION OF SOME BIMETALLIC AND POLYMERIC Zn AND Cd COMPLEXES AS POTENTIAL MATERIALS FOR APPLICATIONS IN CATALYSIS**

*Elena GORINCIOL, Eduard COROPCEANU, Oleg PETUHOV, Moldova*

**METAL OXIDE CATALYSTS FOR WATER PURIFICATION**

*Raisa NASTAS, Andrei IVANETS, Larisa POSTOLACHI, Yevgheniy VORONETS, Tatyana AZAROVA, Irina GINSARI, Tatiana GOREACIOC, Vasile RUSU, Oleg PETUHOV, Tudor LUPASCU, Moldova, Belarus*

**SYNTHESIS AND STUDY OF A NEW Zn(II) MOF**

*Vadim DRUTA, Lidia SPINEI, Irina VODA, Sergiu SHOVA, Vasile LOZAN, Moldova*

**METAL-ORGANIC FRAMEWORKS FROM 1,2,4,5-TETRACARBOXYLIC ACID AND IMIDAZOLE-BASED SPACER**

*Vadim DRUTA, Irina VODA, Polina BOUROSH, Vasile LOZAN, Moldova*

**MODIFIED PROCESS AND BIOREACTOR FOR CYANOCOBALAMINE (VITAMIN B12) AND BIOMETHAN PRODUCTION**

*Victor COVALIOV, Olga COVALIOVA, Moldova*

**CONDITIONING AND UTILIZATION OF CO<sub>2</sub> FROM FERMENTATION INDUSTRIES FOR THE CULTIVATION OF MICROALGAE**

*Victor COVALIOV, Olga COVALIOVA, Moldova*

**ACTIVE CARBONS OBTAINED FROM GRAPE SEEDS**

*Raisa NASTAS, Tudor LUPASCU, Vasile RUSU, Moldova*

**INVENTORY OF INDUSTRIAL POLLUTION SOURCES OF TOXIC SUBSTANCES IN THE REPUBLIC OF MOLDOVA**

*Oleg BOGDEVICH, Elena CULIGHIN, Oleg CADOCINICOV, Elena NICOLAU, Marina GRIGORAS, Moldova*

**THE OPTIMIZATION OF THE OBTAINING CONDITIONS OF THE EXTRACT FROM FORESTRY WASTES**

*Nina TIMBALIUC, Tudor LUPASCU, Natalia PETROV, Lucian LUPASCU, Moldova*

**CRYSTAL STRUCTURE OF NEUTRAL 2,3-PYRIDINEDICARBOXYLATE COBALT(III) COMPLEX**

*Natalia TARENTI, Marilena FERBINTEANU, ANA LAZARESCU, Romania, Moldova*

**TERPENE OZONOLYSIS IN GREEN SOLVENTS**

*Vladilena GÎRBU, Elena PRUTEANU, Nicon UNGUR, Alic BARBĂ, Kulciŭki VEACESLAV, Moldova*

**THE EFFECT OF SOME COORDINATION COMPOUNDS ON PHYSIOLOGICAL PROCESSES OF PLANTS UNDER THE ENVIRONMENTAL STRESS**

*Ion BULHAC, Anastasia STEFIRTSIA, Vasiliu BOTNARI, Eduard COROPCEANU, Lilia BRINZA, Mihail MELENCIUC, Paulina BOUROSH, Moldova*

**SYNTHESIS AND STRUCTURE OF COPPER(II) COMPLEX WITH NEW N,N'-BIS(2-HYDROXY(3-CARBOXYNAPHTHYLIDENE)PROPANE-1,3-DIAMINE LIGAND**

*Tatiana POPA, Duane CHOQUESILLO-LAZARTE, Ana LAZARESCU, Moldova, Spain*



**HETEROGENEOUS CATALYTIC DISPOSAL OF CHLOROBENZENES AND CHLOROTOLUENES FROM INDUSTRIAL WASTES**

*Dilgam TAGIYEV, Arif EFENDI, Elmir BABAYEV, Azerbaijan*

**INVESTIGATING THE Co-Cl BOND CLEAVAGE IN POLYCHLORIDE PESTICIDES**

*Tudor SPATARU, Igor POVAR, Petru SPATARU, Oxana SPINU, Silvia BUZILĂ, USA, Moldova*

**ETHANOLAMMONIUM SALTS OF SUBSTITUTED BENZOIC ACIDS AS ALTERNATIVE PLANT GROWTH REGULATORS**

*Manuela CRISAN, Massimo MAFFEI, Paulina BOUROSH, Radu SUMALAN, Florin BODNARESCU, Romania, Italy*

**BIOSYNTHESIS OF SILVER NANOPARTICLES USING LINDEN FLOWERS EXTRACTS AND EVALUATION OF THEIR ANTIMICROBIAL ACTIVITIES**

*Andreea CORCIOVA, Bianca IVANESCU, Cristina TUCHILUS, Adrian FIFERE, Florica DOROFTEI, Narcisa MARANGOCCI, Romania*

**REUSE OF EXPIRED CEFORT DRUG IN NICKEL ELECTRODEPOSITION FROM WATTS BATH**

*Delia-Andrada DUCA, Mircea Laurentiu DAN, Nicolae VASZILCSIN, Romania*

**CALCIUM DOPED Y-114 LAYERED COBALT PEROVSKITE, A NEW ELECTROCATALYTIC MATERIAL FOR ETHANOL OXIDATION IN ALKALINE MEDIA**

*Victor-Daniel CRAIA-JOLDES, Mircea Laurentiu DAN, Delia-Andrada DUCA, Nicolae VASZILCSIN, Romania*

**SULPHITE ANODIC OXIDATION IN ALKALINE MEDIA ON SMOOTH NICKEL BASED 6 LAYERS PLATINUM NANOPARTICLES ELECTRODE**

*Andreea-Floriana ENACHE, Mircea Laurentiu DAN, Nicolae VASZILCSIN, Romania*

**HYBRID MATERIALS FOR HYDROGEN STORAGE SYSTEMS BASED ON CARBON NANOTUBES AND NEW SUPER-LIGHT LITHIUM ALLOYS**

*Damian KULAWIK, Józef DRABOWICZ, Wojciech CIESIELSKI, Sandra ZDANOWSKA, Agnieszka FOLENTARSKA, Volodymyr PAVLIUK, Poland*

**DETERMINATION OF ORGANIC SUBSTANCES AND METALS FROM MUNICIPAL SOLID WASTE INCENERATION BOTTOM ASH**

*Ivan HRECHANYK, Galina DOVBESHK, Ukraine*

**β-CYCLODEXTRIN AS ECO-FRIENDLY SOIL REMEDIATION AGENT**

*Elena IVANCIC, Albert IVANCIC, Fliur MACAEV, Gheorghe DUCA, Moldova*

**SYNTHESIS OF NEW BIOLOGICALLY ACTIVE POLYFUNCTIONAL TERPENOIDS BASED ON INDUSTRIAL WASTES**

*Aculina ARICU, Lidia LUNGU, Alexandru CIOCARLAN, Alic BARBA, Diana DRAGANCEA, Moldova*

**THE IMPACT OF THE ENVIRONMENT ON DESTRUCTIVE CONVERSION OF OIL, POLLUTING THE SOIL OF ABSHERON PENINSULA**

*Elbay BABAYEV, Azerbaijan*

**SYNTHESIS OF SILVER NANOPARTICLES FROM ELDERFLOWER AQUEOUS EXTRACT: A GREEN APPROACH**

*Ana-Alexandra SORESCU, Alexandrina NUȚĂ, Rodica-Mariana ION, Ioana-Raluca ȘUICĂ-BUNGHEZ, Cristina-Lavinia NISTOR, Romania*

**SYNTHESIS OF N-(ISO-DRIMENOYLAMINO)CARBAZOLE FROM NORAMBREINOLIDE**

*Aculina ARICU, Kaleria KUCHKOVA, Elena SECARA, Alic BARBA, Ion DRAGALIN, Pavel VLAD, Moldova*

**CAPITALIZATION OF THE LAVENDER WASTES IN SOLVING TASKS OF URSOLIC ACID CHEMISTRY**

*Ala FULGA, Elena GORINCIOI, Alic BARBA, Ion DRAGALIN, Nicon UNGUR*



**COMPETITION BETWEEN DICARBOXYLIC AND BIPYRIDINE LIGANDS AT Cu(II) AND Zn(II) COORDINATION**

*Aliona VITIU, E.B. COROPCEANU, L. CROITOR, P.N. BOUROSH, Moldova*

**EVALUATION OF KRAS BIOMARKERS USING GRAPHITE AND GRAPHENE BASED AMPEROMETRIC SENSORS**

*Ahmed Jassim Muklive AL-OGAIDI, Livia Alexandra GUGOASA, Raluca-Ioana STEFAN-VAN STADEN, Romania*

**EVALUATION OF P53 TUMOR SUPPRESSOR GENE USING GRAPHITE BASED AMPEROMETRIC SENSORS**

*Ahmed Jassim Muklive AL-OGAIDI, Livia Alexandra GUGOASA, Raluca-Ioana STEFAN-VAN STADEN, Romania*

**PREPARATION, STRUCTURAL CHARACTERIZATION AND BIOLOGIC ACTIVITY OF Zn(II) AND Cd(II) MONONUCLEAR COMPLEXES WITH PYRIDINE-2-ALDOXIME AND 1,2-CYCLOHEXANEDIONEDIOXIME LIGANDS**

*Sergiu CODREANU, L. CROITOR, A.A. CILOCI, E.B. COROPCEANU, C. M. BIVOL, S.T.CLAPCO, S.V. LABLIUC, M.S. FONARI, Moldova*

**DESIGN, SYNTHESIS AND STRUCTURE OF THREE MIXED-LIGAND Zn(II)/Cd(II) COORDINATION POLYMERS**

*Aliona VITIU, E.B. COROPCEANU, L. CROITOR, P.N. BOUROSH, Moldova*

**METHYL 6'-AMINO-5'-CYANO-2-OXO-3'H-SPIRO[INDOLINE-3,4'-PYRANO[2,3-C]PYRAZOLE]-3'-CARBOXYLATE**

*Dmitri BILAN, Elena MELNIC, Victor KRAVTSOV, Gheorghe DUCA, Fliur MACAEV, Moldova*

**NON-INTERPENETRATING 3D CATIONIC METAL-ORGANIC FRAMEWORK WITH RARE (3,4)-CONNECTED TOPOLOGY BASED ON Cu(I) AND CYCLIC TRIIMIDAZOLE LIGAND**

*Victor BOLD, Victor KRAVTSOV, Elena LUCENTI, Elena CARIATI, Marina FONARI, Moldova*





## The 6<sup>th</sup> International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

### Session D: Ecological & Environmental Aspects in Chemical Research and Education

Moldova State University, Building IV, Room 222, 2<sup>nd</sup> Floor  
60 Mateevici Str., Chisinau, Republic of Moldova

EEC-2017 Session/Activity		Location
9:00-9:30	Participants Registration	Moldova State University
9:30-9:40	<b>PARTICIPANTS WELCOME:</b> <i>Dr. Viorica GLADCHI, Dean of the Faculty of Chemistry and Chemical Technology, Moldova State University</i>	
9:40-11:00 <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Dr. Nadejda VELISCO, Ministry of Education of the Republic of Moldova</i> <i>Dr. Viorica GLADCHI, Dean of the Faculty of Chemistry and Chemical Technology, Moldova State University</i>	
9:40-9:50	<b>EVALUATION OF THE QUALITY OF WATER FOR DRINKING BY PERSONS WHO DONE AFTER STROKE</b> <i>Prof. Grigore FRIPTULEAC, State University of Medicine and Pharmaceutics "N.Testemitanu", Moldova</i>	
9:50-10:00	<b>CHEMISTRY FOR SUSTAINABLE LIFE IN ORDER TO DEVELOP CRITICAL THINKING FOR STUDENTS</b> <i>Dr. Alina BUGA, Theoretical Lyceum V. Alecsandri, Ungheni, Moldova</i>	
10:00-10:10	<b>THE METHODOLOGICAL ASPECTS OF TEACHING THERMODYNAMICS: FROM CIVIC EDUCATION TO NEW UNDERSTANDING OF CARBON FOOTPRINT</b> <i>Dr. Alexei BAERLE, Technical University of Moldova, Moldova</i>	
10:10-10:20	<b>FORMATIVE ASPECTS OF THE CHEMICAL CALCULATION PROBLEMS FROM THE PERSPECTIVE OF FOCUSING ON STUDENTS' INTERESTS</b> <i>Dr. Maria BIRCA, Moldova State University, Moldova</i>	
10:20-10:30	<b>THE ECOLOGICAL EDUCATION IN VIEW OF THE OPTIONAL COURSE</b> <i>Mrs. Maia CHERDIVARA, Theoretical Lyceum „Ion Vatamanu”, Moldova</i>	
10:30-10:40	<b>CALCULATION OF THE DISPERSION OF AIR POLLUTANTS FROM STATIONARY AND MOBILE SOURCES FROM THE REPUBLIC OF MOLDOVA</b> <i>Dr. Vladimir BREGA, Institute of Ecology and Geography of the Academy of Sciences of Moldova</i>	
10:40-10:50	<b>CHEMICALS AND PERSONAL SECURITY</b> <i>Dr. Rita GODOROJA, Lyceum of Modern Languages and Management, Chisinau, Moldova</i>	
10:50-11:00	<b>IMPACT OF TANTARENI LANDFILL ON SURFACE AND GROUND WATERS</b> <i>Dr. Constantin BULIMAGA, Institute of Ecology and Geography of the Academy of Sciences of Moldova</i>	
11:00-11:30	Tea/Coffee	Moldova State University



<b>11:30-13:00</b>	<b>MODERATORS:</b>
<b>PRESENTATIONS</b>	<i>Dr. Galina DRAGALINA, Moldova State University, Moldova</i> <i>Mrs. Elena MIHAILOV, Moldova State University, Moldova</i>
11:30-11:40	<b>INVOLVEMENT OF PUPILS IN VOLUNTEERING ACTIVITIES BY PROJECT,, BY PROTECTING THE NATURE – SAVE THE FUTURE</b> <i>Mrs. Ana SALII, College „Alexei Mateevici”, Chisinau, Moldova</i>
11:40-11:50	<b>THE ROLE OF CHEMISTRY IN THE FORMATION OF ECOLOGICAL CULTURE TO PUPILS</b> <i>Mrs. Ecaterina TURCANU, Theoretical Lyceum „Stefan Voda”, Moldova</i>
11:50-12:00	<b>APPLICATION OF ECO-INTELLIGENCES IN THE FORMATION OF ECOLOGICAL EDUCATION TO PUPILS, FROM THE TRANSDISCIPLINARITY PERSPECTIVE</b> <i>Mrs. Tatiana BEJENARU, Centre of Excellence in Energetics and Electronics, Chisinau, Moldova</i>
12:00-12:10	<b>THE FOOD PROBLEM - ACTUAL PROBLEM</b> <i>Mrs. Victoria GUTIUM, National College of Commerce, ASEM, Moldova</i>
12:10-12:20	<b>ELABORATION OF THE ECOLOGICAL PROJECTS - EFFECTIVE METHOD OF INVOLVING PUPILS IN THE COUNTRY'S DEVELOPMENT</b> <i>Mrs. Nelea POPA, Moldova State University, Moldova</i>
12:20-12:30	<b>BIODIVERSITY GENERATION IN LOWER TRAJAN'S WALL COMPLEX AS A HISTORICAL AND NATURAL PHENOMENON</b> <i>Mr. Aureliu BURGHELEA, Institute of Ecology and Geography ASM, Moldova</i>
12:30-12:40	<b>ECOLOGICAL CHEMISTRY AND ENVIRONMENTAL ASPECTS IN NON-FORMAL EDUCATION</b> <i>Mrs. Aina IDRISOVA, University of Academy of Sciences of Moldova, Moldova</i>
12:40-12:50	<b>THE ECOLOGICAL EDUCATION AT THE CHEMISTRY LESSONS – A CHANCE FOR THE FUTURE!</b> <i>Mrs. Angela IVANOV, Centre of Excellence in Energetics and Electronics, Chisinau, Moldova</i>
12:50-13:00	<b>RIVER BÎC – NATIONAL TRADEGY</b> <i>Mrs. Ludmila GULIC, Theoretical Lyceum,,Anton Guzun, Bulboaca, Moldova</i>
<b>13:00-14:00</b>	<b>Lunch</b> <span style="float: right;"><b>Moldova State University</b></span>
<b>14:00-15:30</b>	<b>MODERATORS:</b>
<b>PRESENTATIONS</b>	<i>Mrs. Maia CHERDIVARA, Theoretical Lyceum „Ion Vatamanu”, Straseni, Moldova</i> <i>Mrs. Nelea POPA, Moldova State University, Moldova</i>
14:00-14:10	<b>MERCURY AND WASTE ISSUES WITH MERCURY SUBSTANCES FROM HEALTH SERVICES</b> <i>Mrs. Alina FERDOHLEB, National Center of Public Health, Laboratory of Occupational Health, Moldova</i>
14:10-14:20	<b>WATER – THE CRADLE OF LIFE!</b> <i>Mrs. Diana MANASCURTA, Centre of Excellence in Energetics and Electronics, Chisinau, Moldova</i>
14:20-14:30	<b>DESIGNING AND SOLVING OF THE PROBLEM-SITUATIONS AT THE CHEMISTRY LESSONS</b> <i>Mrs. Tatiana STAHI, Gymnasium Slobozia Dușca, Criuleni, Moldova</i>
14:30-14:40	<b>THEORETICAL AND PRACTICAL TRAINING METHODS IN SOIL CHEMISTRY AND ENVIRONMENTAL PROTECTION</b>





*Mrs. Corina LEAH, Moldova State University, Moldova*

14:40-14:50

**HUMAN ECOLOGY AS ONE ASPECT OF ECOLOGICAL EDUCATION IN TEACHING CHEMISTRY**

*Mrs. Elena MIHAILOV, Lyceum "Sibirschi, Moldova*

14:50-15:00

**Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session D**

**15:00**

**Departure to ASM for Closing Remarks and Activities**

**15:30-16:00**

**EEC-2017 Conference Conclusions and Recommendations**

**ASM Blue Hall**

*Academy of Sciences of Moldova  
1 Stefan cel Mare Blvd., Chisinau*

**16:00**

**Closing Reception**

**ASM Gold Hall**

*Academy of Sciences of Moldova  
1 Stefan cel Mare Blvd., Chisinau*

**9:00-15:00**

**Poster session is available during the Session D**

**Moldova State University**

**POSTERS**

**USING OF THE NATURAL WATER CHEMISTRY KNOWLEDGE TEACHING CHEMISTRY IN SCHOOL**

*Viorica GLADCHI, Moldova*

**ENTERTAINING CHEMISTRY AND ENVIRONMENT**

*Nelea POPA, Moldova*

**SCHOOL HANDBOOK ON CHEMISTRY – INDISPENSABLE TOOL IN ACHIEVEMENT OF ECOLOGICAL EDUCATION**

*Nadejda VELISCO, Galina DRAGALINA, Moldova*

**EDUCATIONAL ASPECTS IN ENVIRONMENTAL PROTECTION**

*Galina DRAGALINA, Maria SANDU, Moldova*

**SOME ASPECTS OF POPULATION HEALTH IN ORHEI AND TELENEȘTI DISTRICTS**

*Constantin BULIMAGA, Nicolae BODRUG, Moldova*





The 6<sup>th</sup> International Conference  
ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

**Session E: Young Scientists Research in Ecological & Environmental Chemistry**

University of the Academy of Sciences of Moldova (UnASM), Conference Hall 2,  
3/2 Academiei Str., Chisinau, Republic of Moldova

EEC-2017 Session/Activity		Location
9:00-9:30	Participants Registration	UnASM Conference Lobby
9:30-9:40	<b>PARTICIPANTS WELCOME:</b> <i>Acad. Maria DUCA, Rector, University of the Academy of Sciences of Moldova, Moldova</i>	
9:40-11:00 PRESENTATIONS	<b>MODERATORS:</b> <i>Dr. Aliona MEREUȚA, University of the Academy of Sciences of Moldova, Moldova</i> <i>Mr. Vladislav BLONSCHI, Moldova State University, Moldova</i>	
9:40-9:50	<b>THE PROBLEM OF RATIONAL MANAGEMENT OF NATURAL RESOURCES OF THE REPUBLIC OF MOLDOVA</b> <i>Ms. Viorica CIOBANU, Moldova State University, Moldova</i>	
9:50-10:00	<b>PHOTOCHEMICAL TRANSFORMATIONS OF CYSTEINE IN NATURAL WATERS</b> <i>Mr. Vladislav BLONSCHI, Moldova State University, Moldova</i>	
10:00-10:10	<b>STUDY OF THE ANTIOXIDANT PROPERTIES OF THE EXTRACTS FROM SECONDARY FOREST PRODUCTS BY CHEMILUMINESCENCE METHOD</b> <i>Mrs. Natalia PETROV, Institute of Chemistry ASM, Moldova</i>	
10:10-10:20	<b>CRYSTAL STRUCTURE OF NEUTRAL 2,3-PYRIDINEDICARBOXYLATE COBALT(III) COMPLEX</b> <i>Mrs. Natalia TARENTI, University of the Academy of Sciences of Moldova, Moldova</i>	
10:20-10:30	<b>DETERMINATION OF ANTIOXIDANT PROPERTIES OF RESVERATROL FROM GRAPE EXTRACTS</b> <i>Ms. Ana ANTOCI, Moldova State University, Moldova</i>	
10:30-10:40	<b>SYNTHESIS, STRUCTURE AND ANTIMICROBIAL ACTIVITY OF SALICYLALDEHYDE 4-(DIMETHYLPHENYL)THIOSEMICARBAZONES AND BIOMETAL COORDINATION COMPOUNDS WITH THESE LIGANDS</b> <i>Mrs. Tatiana ERHAN, Moldova State University, Moldova</i>	
10:40-10:50	<b>DETERMINATION OF CHLORINATED PESTICIDES IN THE RIVER PRUT</b> <i>Mr. Nicolae GROSU, University of the Academy of Sciences of Moldova, Moldova</i>	
10:50-11:00	<b>THE INFLUENCE OF TARTARIC ACID ON CONFORMATION AND STABILITY OF HUMAN SERUM TRASFERRIN</b> <i>Ms. Anastasia MISCO, University of the Academy of Sciences of Moldova, Moldova</i>	
11:00-11:30	Tea/Coffee	UnASM Conference Hall 2



<b>11:30-13:00</b> <b>PRESENTATIONS</b>	<b>MODERATORS:</b> <i>Dr. Natalia VELIȘCO, University of the Academy of Sciences of Moldova, Moldova</i> <i>Mrs. Irina Gînsari, University of the Academy of Sciences of Moldova, Moldova</i>
11:30-11:40	<b>OBTAINING AND UTILIZATION OF THE CAPSAICIN AS AN ACTIVE PRINCIPLE IN PREPARATION A PRODUCTS WITH HEATING EFFECT</b> <i>Ms. Elena LUCHIAN, Moldova State University, Moldova</i>
11:40-11:50	<b>SYNTHESIS AND RESEARCH OF ANTITUBERCULOSIS DRUGS WITH PROLONGED EFFECT OF NATURAL POLYMERS WITH STREPTOMYCIN</b> <i>Ms. Maria LUCHIAN, Moldova State University, Moldova</i>
11:50-12:00	<b>THE USE OF IMIDAZOLE-BASED DEEP EUTECTIC SOLVENTS IN BIGINELLI REACTION</b> <i>Ms. Natalia NACONECINAIA, University of the Academy of Sciences of Moldova, Moldova</i>
12:00-12:10	<b>THE STUDY OF TOMATO SEEDS AS A SOURCE OF NATURAL ANTICANCER COMPOUNDS</b> <i>Ms. Alexandra PLATONOVA, Moldova State University, Moldova</i>
12:10-12:20	<b>DERIVATIVES OF 3-METHYL-5-(METHYLSULFANYL)-4H-1,2,4-TRIAZOL-4-AMINE WITH ANTIMICROBIAL AND ANTIOXADANTIVES PROPERTIES</b> <i>Mrs. Ana RUSNAC, Moldova State University, Moldova</i>
12:20-12:30	<b>WASTEWATER TREATMENT TECHNOLOGIES OF TEXTILE DYES IN THE PRESENCE OF AUXILIARY AGENTS</b> <i>Ms. Elena VLAS, Moldova State University, Moldova</i>
12:30-12:40	<b>PHARMACO COSMETIC OBTAINING AND USE OF TRITERPENOIDS ACYCLIC SQUALENE</b> <i>Ms. Mihaela VARZARI, Moldova State University, Moldova</i>
12:40-12:50	<b>FORMATION OF NITROSAMINES IN LIVING ORGANISMS – IMMINENT DANGER</b> <i>Ms. Marina MUSTUC, Moldova State University, Moldova</i>
12:50-13:00	<b>ESTIMATE ACCUMULATION OF IRON IN THE UPPER LAKE OF ROSE VALLEY PARK OF THE CHISINAU</b> <i>Ms. Evghenia NEDEALCO, Moldova State University, Moldova</i>
<b>13:00-14:00</b>	<b>Lunch</b> <span style="float: right;"><b>UnASM Conference Hall 2</b></span>
<b>14:00-18:00</b> <b>WORKSHOP</b>	<b>EXACT SCIENCES IN THE DIALOGUE OF GENERATIONS: CONNEXIONS BETWEEN UNIVERSITIES, ACADEMIA AND BUSINESS COMMUNITY</b> <span style="float: right;"><b>UnASM Conference Hall</b></span>
<b>14:00-18:00</b>	<b>MODERATORS:</b> <i>Dr. Aliona MEREUȚA, University of the Academy of Sciences of Moldova, Moldova</i> <i>Dr. Natalia VELIȘCO, University of the Academy of Sciences of Moldova, Moldova</i>
<b>14:00-15:00</b>	<b>SUCCESSFUL CASES OF PRACTICAL IMPLEMENTATION</b>
14:00-14:15	<b>THE USE OF ACTIVATED CARBON IN TREATING THE ENVIRONMENT</b> <i>Prof. Victor MUKHIN, Join. Stoct company “ENPO “Neorganica”, Electrostal, Russia</i>
14:15-14:30	<b>ENOXIL – BIOLOGICALLY ACTIVE NATURAL PRODUCTS</b> <i>Dr. Hab., Mem.cor., Tudor LUPAȘCU, Institute of Chemistry ASM, Moldova</i>
14:30-14:45	<b>A COMPLEX TREATMENT OF PLASTIC AND MEDICAL INFECTIOUS WASTE</b> <i>Sergey BUZHOR, SRL “UISPAC”</i>



14:45-15:00	<b>THE PRACTICAL IMPLEMENTATION OF TECHNOLOGY FOR OBTAINING CONTACT FUNGICIDE COPEER AND FERTILYZERS</b> <i>Dr. Aliona MEREUȚA, Î.S. Izomer a AȘM</i>
<b>15:00-17:00</b>	<b>INNOVATIVE IDEAS CONTEST</b>
15:00-15:10	<b>OBTAINING AND USING OF TETRANORLABDANIC COMPOUNDS WITH BIOLOGICAL PROPERTIES</b> <i>Ms. Crina SMIGON, University of the Academy of Sciences of Moldova, Moldova</i>
15:10-15:20	<b>UTILISATION OF PHYTOLAMPS IN AGRICULTURE</b> <i>Mr. Contastantin LOȘMANSCHI, University of the Academy of Sciences of Moldova, Moldova</i>
15:20-15:30	<b>UTILISATION OF ACTIVATED CARBON FOR WATER PURIFICATION</b> <i>Ms. Irina GINSARI, Institute of Chemistry ASM, Moldova</i>
15:30-15:40	<b>COSMECEUTICAL PRODUCTS BASED ON BIOPOLYMER MATERIAL IMMOBILIZED WITH MODIFIED TANNINS</b> <i>Mr. Alexandru GONTA, Institute of Chemistry ASM, Moldova</i>
15:40-15:50	<b>OBTAINING OF ANTI ACNE LOTION WITH NATURAL BIOACTIVE CONSTITUENTS</b> <i>Ms. Irina CALCEV, Moldova State University, Moldova</i>
15:50-16:00	<b>USING THE OINTMENT FOR RHEUMATOID ARTHRITIS</b> <i>Ms. Veronica OBOROC, Moldova State University, Moldova</i>
16:00-16:10	<b>TEXTILE WASTE WATER TREATMENT FROM NATURAL COLORANTS</b> <i>Mrs. Larisa MOCANU, Moldova State University, Moldova</i>
16:10-16:20	<b>USE OF NATURAL ANTIOXIDANT TO INHIBIT NNA FORMATION IN MEAT PRODUCTS</b> <i>Ms. Valeriana VIRLAN, Moldova State University, Moldova</i>
16:20-16:30	<b>METHODS OF STUDENTS FAMILIARISATION WITH EXACT SCIENCES</b> <i>Ms. Aina Idrisova, University of the Academy of Sciences of Moldova, Moldova</i>
16:30-16:40	<b>USE OF CARBON SORBENT FOR SOILS DECONTAMINATION</b> <i>Ms. Elena CULIGHIN, Institute of Chemistry ASM, Moldova</i>
16:40-16:50	<b>OBTAINING OF BIOLOGICAL ACTIVE PRODUCTS FROM WASTE TREATED BY OZONATION</b> <i>Ms. Vlada GÎRBU, Institute of Chemistry ASM, Moldova</i>
16:50-17:00	<b>STIKERS GPS – INNOVATION IN THE WEST UNKNOWN IN MOLDOVA</b> <i>Ms. Ana NASTASIU, University of the Academy of Sciences of Moldova, Moldova</i>
<b>17:00-17:10</b>	<b>Tea/Coffee</b> <span style="float: right;"><b>UnASM Conference Hall 2</b></span>
<b>17:10-17:40</b>	<b>DISCUSSION BETWEEN BUSINESS REPRESENTATIVES AND WORKSHOP PARTICIPANTS</b>
<b>17:40-18:00</b>	<b>PRIZES AND DIPLOMAS AWARDS</b>
<b>9:00-18:00</b>	<b>Poster session is available during the Session E</b> <span style="float: right;"><b>UnASM Conference Lobby</b></span>
<b>POSTERS</b>	<b>SYNTHESIS OF ALIPHATIC SYMMETRIC DIPHOSPHONIUM SALTS AND BACTERICIDAL PERFORMANCE OF SELECT PRODUCTS</b> <i>Ms. Bin YUAN, Guangdong University of Technology, Guangzhou, China</i>
	<b>DESIGN AND STRUCTURAL CHARACTERIZATION OF CO(II) AMINOALCOHOL-SUPPORTED ISOBUTYRATE AND ITS 1D COORDINATION POLYMER</b> <i>Mr. Dumitru STATI, Institute of Applied Physics, Moldova</i>



**BIORATIONAL PRODUCTS IN THE GRAPES PROTECTION IN ORGANIC AND CONVENTIONAL VITICULTURE**

*Mr. Alexei POPA, Institute of Genetics, Physiology and Plant Protection ASM, Moldova*

**STUDIES ON WIDENING THE SPECTRUM OF ACTION OF ANTIACNE OINTMENT**

*Mrs. Liudmila TIMOFTI, Moldova State University, Moldova*

**SYNTHESIS AND CHARACTERISATION OF A NEW PALLADIUM(II) COORDINATION COMPOUND STARTING FROM A NOVEL PHOSPHONATE LIGAND**

*Ms. Oleseza CUZAN, Institute of Chemistry ASM, Moldova*

**GREEN TEA CATECHIN EXTRACTION AND THE INHIBITION OF OIL AND COSMETIC CREAM OXIDATION**

*Mrs. Constanța COROI, Moldova State University, Moldova*

**CHITOSAN-BASED BIONANOCOMPOSITES FUNCTIONALIZED WITH POLYPHENOL**

*Ms. Alexandru GONTA, Institute of Chemistry ASM, Moldova*

**ECOLOGICAL MATERIAL AND TECHNOLOGIES USED IN STOPPING THE XYLOPHAGIC ATTACK ON A XVIII-TH CENTURY ICON**

*Mr. Cosmin Tudor IURCOVSCHI, Alexandru Ioan Cuza University of Iasi, Romania*

**WASTEWATER TREATMENT OF TEXTILE DYE RED ACTIVE IN PRESENCE OF AUXILIARY AGENTS**

*Ms. Marina NICA-BARDIER, Moldova State University, Moldova*

**CLEAN TECHNOLOGIES – A GUARANTEE FOR THE FUTURE OF THE PLANET**

*Ms. Anastasia ROTARI, Moldova State University, Moldova*

**TERPENE OZONOLYSIS IN GREEN SOLVENTS**

*Ms. Elena PRUTEANU, University of the Academy of Sciences of Moldova, Moldova*

**MICROWAVE ASSISTED SYNTHESIS OF SOME NEW TETRANORLABDANE COMPOUNDS AND THEIR BIOLOGICAL ACTIVITY**

*Ms. Crina SMIGON, University of the Academy of Sciences of Moldova, Moldova*

**CARBONACEOUS ADSORBENTS FOR REMOVAL OF POLLUTANTS FROM WATER**

*Ms. Irina GINSARI, Institute of Chemistry ASM, Moldova*

**ELABORATION OF AN ANTIACNEIC LOTION BASED ON NATURAL BIOACTIVE CONSTITUENTS**

*Ms. Irina CALCEV, Moldova State University, Moldova*

**OBTAINING TECHNOLOGY OF THE RHEUMATOID ARTHRITIS OINTMENT**

*Ms. Veronica OBOROC, Moldova State University, Moldova*

**THE CATALYTIC OXIDATION OF BIS-MPA**

*Mrs. Larisa MOCANU, Moldova State University, Moldova*

**THE ELABORATION OF INHIBITION METHODS IN THE FORMATION PROCESSES OF N-NITROSOAMINES IN THE MEAT PRODUCTS**

*Ms. Valeriana VIRLAN, Moldova State University, Moldova*

**STUDY OF ADSORPTION OF ORGANIC POLLUTANTS ON CARBONACEOUS ADSORBENTS**

*Ms. Elena CULIGHIN, Institute of Chemistry ASM, Moldova*

