



The 6th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY 2017

March 3, 2017

Small 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	PARTICIPANTS WELCOME <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	MODERATORS: <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>	
PRESENTATIONS		
9:30-9:40	MOLECULAR STRUCTURE AND PROPERTIES OF WATER, AND ENVIRONMENT PROBLEMS <i>Prof. Ion GERU, Institute of Chemistry, Academy of Sciences of Moldova, Moldova</i>	
9:40-9:50	ASPECTS CONCERNING PREPARATION OF SUITABLE CATALYST FOR HEAVY WATER DETRITATION <i>Dr. Gheorghe IONITA, National Research Institute for Cryogenics and Isotopic Technologies-ICSI, Ramnicu Valcea, Romania</i>	
9:50-10:00	ECOLOGICAL ASPECTS OF THE IMPACT OF THE INDUSTRIAL OBJECTS ON THE WATER OF THE TRANSBOUNDARY RIVERS OF THE CENTRAL ASIA <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	THE SONOCHEMICAL PROCESSES FOR WASTEWATER TREATMENT, PIONEER WORKS IN ROMANIA <i>Dr. Mihaela IORDACHE, INCD ECOIND, Ramnicul Valcea, Romania</i>	
10:10-10:20	THE FUTURE ROLE OF ACTIVE CARBONS <i>Prof. Victor MUKHIN, Joint stock company «ENPO «Neorganika», Elektrostal, Russia</i>	
10:20-10:30	POLYMERIC FIBROUS NONWOVENS AS SORBENT MATERIALS FOR OIL SPILL CLEANUP <i>Dr. Corneliu COJOCARU, Petru Poni Institute of Macromolecular Chemistry, Romania</i>	
10:30-10:40	FEATURES OF TRANSFORMATION OF REDUCED SULFUR IN AQUEOUS MEDIUM WITH OXYGEN, HYDROGEN PEROXIDE AND METAL IONS OF VARIABLE VALENCE <i>Dr. Viacheslav SHVYDKYI, Emanuel Institute of Biochemical Physics, Russian Academy of Science, Russia</i>	
10:40-10:50	BIOGAS UPGRADING USING AN INTEGRATED CLOSED SYSTEM <i>Ms. Ana Maria GALAN, The National R&D Institute for Chemistry and Petrochemistry, Romania</i>	
10:50-11:00	REMOVAL EFFICIENCIES OF A HYBRID CONSTRUCTED WETLAND TREATING AGRICULTURAL WASTEWATERS UNDER THE DIFFERENT LOADING STRATEGIES <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
11:30-13:00 PRESENTATIONS	MODERATORS: <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	ENVIRONMENTAL-FRIENDLY TECHNOLOGY OF SEEDS ELECTROMAGNETIC TREATMENT FOR STIMULATION OF THE PLANTS DEVELOPMENT <i>Prof. Anatolie SIDORENCO, Institute of Electronic Engineering and Nanotechnologies ASM, Moldova</i>	
11:40-11:50	STRUCTURAL AND CHEMICAL MODIFICATION OF THE INDUSTRIAL POLYMERS <i>Prof. Alexandr BILDYUKEVICH, Institute of Physical Organic Chemistry of the National Academy of Sciences of Belarus, Belarus</i>	
11:50-12:00	IMPROVING SURFACE WATER QUALITY ASSESSMENT METHODS BY SEMIQUANTITATIVE AND MULTIELEMENTAL SPECTROMETRIC METHODS <i>Dr. Claudiu TĂNĂSELIA, INCDO-INOE 2000 ICIA, Cluj-Napoca, Romania</i>	
12:00-12:10	TRANSFORMATION OF POLYCYCLIC AROMATIC HYDROCARBONS AT THE DEGRADATION OF OIL <i>Prof. Islam MUSTAFAYEV, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>	
12:10-12:20	MAGNETIC NANOPARTICLES AS SPECIFIC SORBENTS FOR THE REMOVAL OF DYES FROM AQUEOUS SOLUTIONS <i>Dr. Simona Gabriela MUNTEAN, Institute of Chemistry Timisoara of the Romanian Academy, Romania</i>	
12:20-12:30	GREEN TECHNOLOGIES IN THE TREATMENT OF WATER AND LIQUID FOODSTUFFS <i>Dr. Farda IMANOV, "Azersu" Open-Type Joint Stock Company, Azerbaijan</i>	
12:30-12:40	ION EXCHANGER/CaCO₃ COMPOSITES AS SORBENTS FOR IONIC MOLECULES <i>Dr. Marcela MIHAI, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</i>	
12:40-12:50	PHOTOCATALYTIC SEMICONDUCTORS BASED NANOCOMPOSITE MATERIALS SYNTHESIZED BY LASER TECHNIQUES <i>Dr. Angela DATCU, National Institute for Lasers, Plasma and Radiation Physics, Romania</i>	
12:50-13:00	ECOFRIENDLY METHOD FOR PRODUCTION OF BIODEGRADABLE HYDROPHOBIC STARCH FILMS <i>Mrs. Arkadiusz ZARSKI, Jan Długosz University of Częstochowa, Poland</i>	
13:00-14:00	Lunch	ASM Gold Hall
14:00-15:30 PRESENTATIONS	MODERATORS: <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	MULTI-USE FIBROUS SORBENT FOR ELIMINATION OF EMERGENCY SPILLS OF OIL AND OIL-PRODUCTS <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	LOW-TEMPERATURE FUEL CELL FOR PURIFICATION OF WATERS FROM HYDROGEN SULFIDE <i>Dr. Grigor TATISHVILI, "R. Agladze" Institute of Inorganic Chemistry and Electrochemistry of the Javakhishvili Tbilisi State University, Georgia</i>	



14:20-14:30	THE DYNAMICS OF CHANGES IN CHLORINE CONCENTRATIONS IN TREE LEAVES IN YEREVAN <i>Dr. Gayane NERSISYAN, Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>
14:30-14:40	STUDY OF SORPTION BEHAVIOUR OF Sr(II) IONS ONTO MANGANESE OXIDES WITH LAYERED AND TUNNEL STRUCTURES <i>Dr. Andrei IVANETS, Institute of General and Inorganic Chemistry, NAS Belarus</i>
14:40-14:50	CONTENT AND CHARACTERISTICS OF WASTE OF OIL TRANSPORTATION BY PIPELINES <i>Dr. Nigar GULIYEVA, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>
14:50-15:00	CHANGES IN THE STRUCTURAL COMPOSITION OF THE DEGRADATED OIL AT THE WATER SURFACE <i>Ms. Ayten SAMADOVA, Baku State University, Azerbaijan</i>
15:00-15:10	Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session B
15:30-16:00	EEC-2017 Conference Conclusions and Recommendations ASM Blue Hall <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
16:00	Closing Reception ASM Gold Hall <i>Academy of Sciences of Moldova</i> <i>1 Stefan cel Mare Blvd., Chisinau</i>
9:00-16:00	Poster session is available during the Session B At the session location
POSTERS	OPTIMIZATION OF WATER CONSUMPTION IN GALVANIC INDUSTRY <i>Nikolai BEREZIN, Irina GRIGORYEVA, Marat MAVLETOV, Aynur YARULLIN, Russia</i>
	ROLE OF COMPLEX FORMATION AND PULSE CURRENT IN PROCESSES OF ELECTROCHEMICAL DOPING OF GALVANIC <i>Jeanne MEZHEVICH, Nikolai BEREZIN, Irina GRIGORYEVA, Russia</i>
	COMPARATIVE STUDY OF ELECTROFLOTATION, COAGULATION, AND ELECTROFLOTOCOAGULATION METHODS OF PLASTICIZERS (DMPA) IN THE PRESENCE OF TEXTILE DYES <i>Maria GONTA, Gheorghe DUCA, Viorica IAMBARȚEV, Vera MATVEEVICI, Moldova</i>
	NICKEL CEMENTATION FROM AMMONIACAL SOLUTION BY SUSPENDED ALUMINUM PARTICLES <i>Irina GRIGORYEVA, Jeanne MEZHEVICH, Alexander DRESVYANNIKOV, Russia</i>
	TREATMENT OF CHROMIUM ELECTROPLATING EFFLUENTS BY CHEMICAL AND ELECTROCHEMICAL COAGULATION PROCESS <i>Konstantinos DERMENTZIS, Greece</i>
	REMOVAL OF NYSTATIN FROM AQUEOUS SOLUTION BY ADSORPTION ONTO NANOHYDROXYAPATITE <i>Simona ILISEI, Gabriela CIOBANU, Constantin LUCA, Romania</i>
	CLEANING OF WATERS OF DIFFERENT ORIGIN FROM NONIONOGENIC ORGANIC SURFACTANTS BY LOW-TEMPERATURE PLASMA ELECTROLYSIS <i>Valeriy KUBLANOVSKY, Alexander KRAVCHENKO, Ukraine</i>
	ADSORPTION OF SR²⁺ IONS FROM WATER SOLUTIONS ON ACTIVE CARBON CAN-7 IN DYNAMIC CONDITIONS <i>Mihai CIOBANU, Tudor LUPASCU, Tatiana MITINA, Moldova</i>
	CENTRIFUGATION – AN EFFECTIVE METHOD FOR INTENSIFYING ADSORPTION PROCESS IN WATER TREATMENT <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 TiO₂ 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 Pb²⁺, Zn²⁺, Cu²⁺, Cd²⁺, Ni²⁺, Sr²⁺ AND CO²⁺ 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 SOME RIVERS FROM REPUBLIC OF MOLDOVA AND ROMANIA

Mrs. Silvia RACOVITA, Moldova

