



The 6th 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	PARTICIPANTS WELCOME: <i>Prof. Tudor LUPASCU</i> , Director of the Institute of Chemistry Academy of Sciences of Moldova, Moldova	
9:40-11:00	MODERATORS: <i>Prof. Fliur MACAEV</i> , Institute of Chemistry, Academy of Sciences of Moldova, Moldova <i>Prof. Valentin TERTYKH</i> , Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Ukraine	
9:40-9:50	ADSORBENTS BASED ON COMPOSITES OF SILICA WITH AMINO- AND SULFO CONTAINING POLYSACCHARIDES <i>Prof. Valentin TERTYKH</i> , Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Ukraine	
9:50-10:00	IONIC LIQUIDS BASED MATERIALS FOR GREEN CHEMISTRY PROTOCOLS <i>Prof. Fliur MACAEV</i> , Institute of Chemistry ASM, Moldova	
10:00-10:10	CLOSED-CYCLE INTENSIFIED TECHNOLOGY FOR SUSTAINABLE BIOCHEMICAL PRODUCTION OF ALTERNATIVE FUELS FROM AGRICULTURAL WASTES <i>Dr. Olga COVALIOVA</i> , Institute of Chemistry ASM, Moldova	
10:10-10:20	THE HYDROGEN FROM CHEMISTRY TO GREEN ENERGY, ASPECTS FROM ROMANIA <i>Dr. Ioan IORDACHE</i> , National Research & Development Institute for Cryogenics and Isotopic Technologies- ICIT	
10:20-10:30	POSSIBILITIES OF APPLICATION OF SOLID ENERGETIC COMPOSITIONS TO IMPROVE THE LEVEL OF ENVIRONMENTAL SAFETY ASSOCIATED WITH THE USE OF LIQUID-FUELED SPACE LAUNCH VEHICLES <i>Dr. David LEMPERT</i> , Institute of Problems of Chemical Physics, Russian Academy of Sciences, Russia	
10:30-10:40	REACTANT-GOVERNED HYDROGEN ACCUMULATION AS INTERMEDIATE BETWEEN CONVENTIONAL HYDROGEN RESERVOIRS AND FUEL PROCESSORS <i>Dr. Anton MANILOV</i> , Taras Shevchenko National University of Kyiv, Ukraine	
10:40-10:50	STUDY OF POPS CONTAMINATED SITE FOR ENVIRONMENTAL RISK ASSESSMENT AND REMEDIATION IN MOLDOVA <i>Dr. Oleg BOGDEVICH</i> , Institute of Chemistry of the Academy of Sciences of Moldova, Moldova	
10:50-11:00	PREPARATION OF ACTIVATED CARBONS FROM FERN LEAVES FOR CO₂ ADSORPTION <i>Mr. Jaroslaw SERAFIN</i> , West Pomeranian University in Szczecin, Poland	



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



14:30-14:40	ACCELERATION OF SOME DICARBOXIMIDEI GROUPE FUNGICIDE DECAY BY TITANIUM DIOXIDEI ADDITIVE: EXPERIMENTAL EVIDENCE AND QUANTUM-CHEMICAL BACKGROUND OF COMMON MECHANISM <i>Mr. Ivan OSIPOV, Institute of Chemistry ASM, Moldova</i>
14:40-14:50	INFLUENCE OF BENZENE RINGS NUMBER TO THE DISTRIBUTION OF 16EPA PAH AT THE DEGRADATION OF PETROLEUM IN SOIL <i>Mr. Shahin HAJIYEV, Institute of Radiation Problems National Academy of Sciences, Azerbaijan</i>
14:50-15:00	Discussion of EEC-2017 Conference Resolution and formulation of proposals on behalf of Session C
15:00	Departure to ASM for Closing Remarks and Activities
15:30-16:00	EEC-2017 Conference Conclusions and Recommendations <i>ASM Blue Hall Academy of Sciences of Moldova 1 Stefan cel Mare Blvd., Chisinau</i>
16:00	Closing Reception <i>ASM Gold Hall Academy of Sciences of Moldova 1 Stefan cel Mare Blvd., Chisinau</i>
9:00-15:00	Poster session is available during the Session C <i>Central Scientific Library "A. Lupan"</i>
POSTERS	ION EXCHANGE PROPERTIES OF GEORGIAN NATURAL ZEOLITES <i>Vladimer TSITSISHVILI, Nanuli DOLABERIDZE, Spartak UROTADZE, Georgia</i>
	SURFACE PROPERTIES OF BENTONITE LARGUTZA PILLARED WITH ALUMINUM OLIGOMERS <i>Vasile RUSU, Moldova</i>
	LONG TERM ASSESSMENT OF THE HEAVY METALS CONTENT IN ACIDIC SOILS <i>Igor POVAR, Oxana SPINU, Moldova</i>
	MAGNETIC NANOPARTICLES LOADED WITH NATURAL ANTIOXIDANTS FOR BIOMEDICAL APPLICATIONS <i>Lacrămioara LUNGOCI, Narcisa MARANGOCI, Andreea CORCIOVA, Cornelia MIRCEA, Irina ROȘCA, Adrian FIFERE, Mariana PINTEALĂ, Romania</i>
	GROWTH, PHYSIOLOGICAL AND BIOCHEMICAL RESPONSES IN COPPER-TREATED POPLAR PLANTS TO BE EXPLOITED FOR THE PHYTOREMEDIATION BIO-TECHNOLOGY <i>Massimo ZACCHINI, Daniela DI BACCIO, Valentina IORI, Sofia VELIKSAR, Natalia LEMANOVA, Liudvika JUŠKAITE, Audrius MARUŠKA, Fabrizio PIETRINI, Italy, Moldova, Lithuania</i>
	SEQUENTIAL SUPERCRITICAL FLUID EXTRACTIONS OF BIOACTIVE COMPOUNDS FROM TANGERINE AND ORANGE PEEL <i>Mzia TSITSAGI, Vladimer TSITSISHVILI, Ketevan EBRALIDZE, Georgia</i>
	SYNTHESIS AND CRYSTAL STRUCTURE OF NEW ORGANIC LIGAND BASED ON S-METHYLISOLTHIOSEMICARBAZIDE <i>Mihaela ROTARU, Maria COCU, Diana DRAGANCEA, Ion BULHAC, Polina BOUROSH, Moldova</i>
	LIGNIN OZONOLYSIS IN DEEP EUTECTIC SOLVENTS <i>Marina GRINCO, Alic BARBĂ, Nicon UNGUR, Veaceslav KULCIŢKI, Moldova</i>
	NATURAL EXOPOLYSACCHARIDES AS ECOLOGICAL EXCIPIENTS IN DRUG DELIVERY <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, Yevgheny VARANETS, 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 CO₂ 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, Kulcițki VEACESLAV, Moldova

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

Ion BULHAC, Anastasia STEFIRITSA, 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

