

The Third International Conference

Ecological Chemistry 2005

May 20-21, 2005, Chisinau, Republic of Moldova

Conference Program

ACADEMY OF SCIENCES OF MOLDOVA
Printing House, 2005

Organizing Committee of the Third International Conference Ecological Chemistry 2005

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The Program contains the timetable of the Plenary Session and Conference Sessions of the third International Conference “Ecological Chemistry 2005”, Chisinau, Moldova, May 20-21, 2005.

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The Third International Conference

Ecological Chemistry-2005

Information Note

The Third International Conference *Ecological Chemistry 2005* is held in Chisinau, Republic of Moldova, **May 20-21, 2005** as a part of series of successful conferences organized up to present. It is recognized as an important international conference, which attracts scientists and engineers from the Former Soviet Union states, Europe, U.S.A. and other countries.

Ecological Chemistry as a research area started to develop in Moldova when the First International Ecological Chemistry School was conducted in 1985. Since then the scientific activities in this field was marked by annual scientific conferences for students, creation of new NGOs, initiation of scientific and public projects funded by such international foundations as ACS, UNDP, CRDF, Tacis, REC-Moldova, development of partnership programs.

The Conferences “Ecological Chemistry” in 1995 and 2002 marked the initiation of the collaboration with the Civilian Research and Development Foundation (CRDF), UNESCO, Ministry of Ecology and Natural Resources of Moldova. This area has been intensively expanding already for 20 years and is one of the priorities for the sustainable development of the National Economy.

The *Ecological Chemistry 2005* conference is organized and co-sponsored by the Academy of Sciences of Moldova (ASM), Moldovan Research and Development Association (MRDA), U.S. Civilian Research and Development Foundation (CRDF), U.S. European Research Office (ERO), U.S. National Science Foundation (NSF), UNESCO, Ministry of Ecology and Natural Resources and Department of Industrial and Ecological Chemistry of the State University of Moldova.

More than 470 participants from 38 countries have acknowledged their commitment to participate to this event.

The conference will provide opportunities for exchange of the latest ideas, presentation and discussion of recent work on aspects of chemical processes

in natural and technological environment, including water, air, soil, wastes, specific issues of sustainable development.

Special sessions are being planned to focus on research in chemical risk assessment, socioeconomic ecology, environmental and ecological policy, legislation and education.

The aim of the conference is to encourage and facilitate the interdisciplinary communication among scientists, engineers, economics and professionals working in ecological areas.

The conference details are available through the website: www.mrda.md or www.ecochem2005.mrda.md.

Gheorghe DUCA,

Academician, Professor,
President of the Academy of Sciences of Moldova,
Chairman of the 3rd International Conference “Ecological Chemistry 2005”

The Organizing Committee of the third International Conference “Ecological Chemistry 2005” highly appreciate the financial support and assistance provided by the following agencies:

- *Academy of Sciences of Moldova*
- *Moldovan Research and Development Association*
- *U.S. Civilian Research and Development Foundation (Award No.MO01-4012-CH-05)*
- *U.S. National Science Foundation*
- *American Chemical Society*
- *European Research Office of the U.S. Army Engineer Research and Development Center (Award 9894-EN-02/ No.62558-05-P-0126)*
- *UNESCO Moscow Office for Armenia, Azerbaijan, Belarus, Georgia, the Republic of Moldova and the Russian Federation*
- *National Commission of the Republic of Moldova for UNESCO*
- *Embassy of Federal Germany to the Republic of Moldova*
- *Federal Ministry for the Environment of Germany*
- *Embassy of Poland to the Republic of Moldova*
- *National Ecological Foundation of the Ministry of Ecology and Natural Resources of Moldova*
- *Department of Industrial and Ecological Chemistry of the State University of Moldova*

The Organizing Committee acknowledges the contribution to organization of the 3rd International Conference “Ecological Chemistry 2005” of the following persons: **Lidia Romanciuc, Olga Covaleva, Igori Mardari, Vergil Movila, Vlad Bondarenco, Ion Suman, Lidia Virtan, Dragos Duca, Diana Popa, Diana Cucos, Elena Brinza.**

Conference Chairmen

Duca Gheorghe - Academician, President of the Academy of Sciences of Moldova

Scurlatov Iurii - Professor, Institute of Chemical Physics, Russian Academy of Sciences

International Scientific Advisory Committee

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Goncharuk Vladislav - National Academy of Science of Ukraine, Kiev, Ukraine

Hartmut Herrmann - Leipzig University, Leipzig, Germany

Jitaru Maria - Babes Bolyai University, Cluj-Napoca, Romania

Kennedy Robert - U.S. Army Engineer Research and Development Center, European Research Office, London, UK

Klausen Joerg - EMPA, Dubendorf, Switzerland

Macoveanu Matei - "Gh.Asachi" Technical University, Iasi, Romania

Malin John - American Chemical Society, Washington, U.S.A.

Mufit Bahadir - Institute of Ecological Chemistry, Braunschweig, Germany

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Raymond Hamelin - International Union of Pure and Applied Chemistry, Paris, France

Samurzina Alma - Al-Farabi Kazakh National University, Alma-Ata, Kazakhstan

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VanGundy Seymour - University of California, Riverside, U.S.A.

Zehnder Alexander J.B. - Board of the Swiss Federal Institutes of Technology ETH Board, Zurich, Switzerland

Local Scientific Committee

Mihailescu Constantin -Minister of Ecology and Natural Resources

Furdui Teodor - Academy of Sciences of Moldova

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Andries Serafim - Institute of Soil, Agrochemistry and Hydrology,
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Local Organizing Committee

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Covaliova Olga - World Bank Pilot Water Supply and Sanitation Project

Isac Andrei - World Bank Project of Persistent Organic Pollutants

Gladchi Viorica - Ecological Chemistry Scientific Laboratory

Mardari Igor - Department of Industrial and Ecological Chemistry,
Moldova State University

Suman Ion - National Office of United Nation Environmental Programs

Conference Topics

A. Ecological Chemistry of Water

- Monitoring of Water Quality and Environmental Modeling
- Redox Processes in Natural Water
- Water Treatment and Supply

B. Ecological Chemistry of Air

- Chemical Processes in Atmosphere
- Air Quality Control and Management
- Impact of Air Emissions on Human Health

C. Ecological Chemistry of Soil

- Soil Contamination and Pollution Prevention
- Ecological Agriculture
- Ecological Technology in Agricultural Sector

D. Waste Management and Cleaner Production

- Industrial Pollution
- Solid Waste Management
- Persistent Organic Pollutants Management
- Cleaner Production and Sustainable Business

E. Chemical Risk Assessment

- Impact of Chemicals on Human Health and Environment
- Ecotoxicology
- Chemical Risk Mitigation and Analysis

F. Ecological Policy and Legislation

- Ecological Legislation
- Community Involvement and Education
- Sustainable Development

G. Electrochemistry and Ecology

- Electrochemical methods of environmental protection
- Ecological problems in electrochemical production
- Electrochemical methods of natural and waste water treatment and conditioning

Timetable of The Third International Conference: Ecological Chemistry 2005

May 20 Plenary Session

The Palace of Republic, 2nd floor, 16 Maria Cibotari str., Chisinau, Republic of Moldova

May 21 Conference Sections

Moldova State University, 60 Mateevici str., Chisinau, Republic of Moldova

	Section	Location	Room
A.	Ecological Chemistry of Water	Main Building, 2 nd Floor	Conference hall
B.	Ecological Chemistry of Air	Building 4 3 rd floor	317
C.	Ecological Chemistry of Soil	Building 4 2 nd floor	222
D.	Waste Management and Cleaner Production	Building 4 4 th floor	405
E.	Chemical Risk Assessment	Building 2 A 2 nd floor	6
F.	Ecological Policy and Legislation	Building 4 3 rd floor	319
G.	Electrochemistry and Ecology	Building 4 2 nd floor	213
	Closing session	ASM	Conference hall

May 22 Round Table

Academy of Sciences of Moldova, Boulevard Stefan cel Mare 1, Chisinau, Republic of Moldova

Méthodes électrochimiques de contrôle et destruction des polluants organiques et inorganiques. Working Language – French.

The Third International Conference:

Ecological Chemistry 2005

Program

Friday, May 20, 2005

8.00 – 9.00 Participant Registration

9.00 – 9.05 **Conference Opening**

WELCOME SPEECHES

9.05 – 9.30	Marian Lupu	Speaker of Parliament of the Republic of Moldova
	Heather M. Hodges	U.S. Ambassador to the Republic of Moldova
	Constantin Mihailescu	Minister of Ecology and Natural Resources
	Marie Prchalova	Program Specialist for Science, UNESCO Office for Armenia, Azerbaijan, Belarus, Georgia, the Republic of Moldova and Russian Federation
	Lawrence Goldberg	Senior Adviser, U.S. National Science Foundation
	Constantin Rusnac	General Secretary, National Commission of the Republic of Moldova for UNESCO
	Gheorghe Rusnac	Rector of the Moldova State University

9.30 – 10.00 **Gheorghe Duca, Moldova**
ECOLOGICAL CHEMISTRY.
ASCHIEVEMENTS AND PERSPECTIVES

10.00 – 10.40 Coffee break

PLENARY SESSION

- 10.40 – 11.00 **Anatolii Purmali, Russia**
CHEMICAL REACTIONS IN THE
ATMOSPHERIC WATER
- 11.00 – 11.20 **Vladislav Goncharuk , Ukraine**
WATER PROBLEMS. THE STATE
AND THE FUTURE OF THE WATER
CHEMISTRY AND WATER SUPPLY
- 11.20 – 11.40 **John Malin, USA**
STRATEGIES FOR SOLVING THE
PROBLEM OF ARSENIC POLLUTION IN
NATURAL WATER
- 11.40 – 12.00 **Alma Samurzina, Kazahstan**
ECOLOGICAL CHEMISTRY AS A
SCIENCE AND EDUCATION PROCESS
- 12.00 – 12.20 **Maria Jitaru, Romania**
ELECTROCHEMICAL TECHNICS FOR A
CLEANER ENVIRONMENT
- 12.20 – 14.00 Lunch
- 14.00 – 14.20 **Iurii Skurlatov, Russia**
THE INTRODUCTION IN THE
ECOLOGICAL CHEMISTRY OF THE
AQUATIC MEDIUM
- 14.20 – 14.40 **Isaak Bersuker, USA**
USE OF COMPUTATIONAL CHEMISTRY
FOR COMPUTER-AIDED TESTING AND
PREDICTION OF TOXICITY

- 14.40 – 15.00 **Boguslaw Wilkomirski, Poland**
POLYAROMATIC HYDROCARBONS
(PAHs) – THE INTERESTING
POLLUTANTS OF PEATLAND
ECOSYSTEMS
- 15.00 – 15.20 **Tatyiana Rakitskaya, Ukraine**
ECOLOGICAL CATALYSIS. THEORY AND
PRACTICE
- 15.20 – 16.00 Coffee break
- 16.00 – 16.20 **Muefit Bahadir, Germany**
POLYCHLORINATED TERPHENYLS
(PCT) - SYNTHESIS, ANALYSIS AND
BEHAVIOR UNDER THERMAL STRESS
- 16.20 – 16.40 **Seimour VanGundy, USA**
THE DEVELOPMENT OF MOLECULAR
BIOLOGY IN MOLDOVA TO
ADDRESS AGRICULTURAL AND
ENVIRONMENTAL ISSUES.
- 16.40 – 17.00 **Matei Macoveanu, Romania**
KEY ENVIRONMENTAL RISK FACTORS
AND IMPACT CONSIDERATION
ISSUES FOR ALCOHOLIC BEVERAGES
INDUSTRY
- 17.00 – 17.20 **Serafim Andries, Moldova**
SOURCE AND FORM OF THE CHEMICAL
DEGRADATION OF SOIL AND METHODS
OF ITS REDUCTION
- 18.00 – 20.30 Cultural Program

ECOLOGICAL CHEMISTRY OF WATER

Co-Chairs: *Iurii Skurlatov, Russia*
Vladislav Goncharuk, Ukraine
Tudor Lupascu, Moldova

Secretary: *Viorica Gladchi, Moldova*

Saturday, May 21, 2005

- 09.00 - 09.15 **Evgheni Gopchenko, Ukraine**
THE ELABORATION OF STRATEGIES OF WATER
REGIME AND QUALITY MANAGEMENT BASED
ON RESULTS MATHEMATIC SIMULATIONS
- 09.15 – 09.30 **Gregory Cutter, USA**
PHOTOCHEMICAL EFFECTS ON THE REDOX
CYCLING OF ARSENIC IN SURFACE WATERS
- 09.30 – 09.45 **Tudor Lupascu, Moldova**
REMOVAL OF HYDROGENSULPHIDE, AMMONIA
AND NITRITE IONS FROM WATER SOLUTIONS
USING MODIFIED ACTIVE CARBONS
- 09.45 – 10.00 **Viorel Patroescu, Dinu Laurentiu, Romania**
UPGRADING OF RAMNICU VALCEA WWTP
BIOLOGICAL STEP BY INTEGRATION OF THE
NUTRIENT REMOVAL PROCESSES
- 10.00 – 10.10 **Trahel Vardanian, Armenia**
ON THE ISSUES OF MODELING OF
ENVIRONMENTAL PROCESSES OCCURRING IN
RIVER WATER
- 10.10 – 10.20 **Elena Shtamm, Russia**
THE ROLE OF BIOTESTING METHODS IN THE
EVALUATION OF WATER QUALITY

- 10.20 – 10.30 **Ingrid Bucisanu, Romania**
PREPARATION AND CHARACTERIZATION
OF SOME Fe-BASED PREHYDROLYZED
COAGULANTS FOR WATER AND WASTEWATER
TREATMENT
- 10.30 – 10.40 **Irina Makovetskaya, Ukraine**
THE MONITORING INVESTIGATION OF
SEAWATER QUALITY BETWEEN THE OUTFALL
OF DANUBE RIVER AND DNIESTROVSK
COASTAL LAKE
- 10.40-10.50 **Josef Malina, USA**
START-UP STUDYING OF THE ANAEROBIC
TREATMENT PROCESS
- 10.50 – 11.00 **Serghei Kalyuzhnyi, Russia**
NEW CONCEPTS OF MICROBIAL NITROGEN
REMOVAL FROM WASTEWATER
- 11.00 – 11.20 Coffee break
- 11.20 – 11.30 **Ion Toderash, Moldova**
THE DYNAMICS OF METALS IN FISH FROM
PRUT RIVER
- 11.30 – 11.40 **Eiliv Steinnes, Norway**
METAL SPECIATION IN PRUT RIVER
SEDIMENTS STUDIED BY CHEMICAL
FRACTIONATION TECHNIQUES
- 11.40 – 11.50 **Viorica Gladchi, Moldova**
THE STUDY OF REDOX CONDITIONS IN THE
DNIESTER RIVER

- 11.50 – 12.00 **Nicoleta Oprea, Romania**
THE SIMULATION OF THE MECHANISMS OF RETENTION OF SUSPENSIONS IN FILTERING BED. THE APPLICATION OF THE THEORY OF SIMILARITIES FOR THE PROCESS OF WATER FILTERING
- 12.00 –12.10 **Katherine Pershina, Ukraine**
MODELING OF THE KINETICS OF PHENOL DERIVATIVES AND PRODUCTS OF THEIR OXIDATION TRANSFORMATIONS IN NATURAL WEAKLY MINERALIZED BASINS
- 12.10 – 12.20 **Sychev Mikhail, Ukraine**
ENVIRONMENTAL APPLICATION OF CATALYSIS IN WATER: A REVIEW
- 12.20 – 12.30 **Andrei Bogolepov, Ukraine**
SORPTION-DESORPTION PROCESSES IN SYSTEM U(VI)- MONTMORILLONITE IN THE PRESENCE OF THE COMPLEXING AGENTS
- 12.30 – 12.40 **Tatiana Strikalenko, Ukraine**
ECOTOXICOLOGY OF THE DRINKING WATER
- 12.40 – 12.50 **Marina Gladchenko, Ukraine**
INTEGRATED BIOLOGICAL (ANAEROBIC-AEROBIC) AND PHYSICO-CHEMICAL TREATMENT OF BAKER'S YEAST WASTEWATER
- 12.50-13.00 **T.V. Ereshko, Ukraine**
OXIDATION-REDUCTION PROCESSES OCCURRING DURING NITROGEN COMPOUNDS REMOVAL FROM WATER
- 13.00-14.30 Lunch
- 14.30-15.30 Posters presentation

Banica Dobre, Romania

MULTIFUNCTIONAL FLOATING EXCAVATOR
(PELICAN B580) DESIGNED FOR THE
ECOLOGICAL OPERATIONS IN WATER

Andrei Bunescu, Moldova

COMPLEMENTARITY OF THE PHOTO-
AND BIODEGRADATION PROCESSES FOR
POLLUTANTS REMOVAL FROM THE AQUATIC
COMPARTMENTS: APPLICATION TO 2-AMINO-
BENZOTHAZOLE

Ruslan Borodaev, Moldova

ON THE PRELIMINARY SIGNS OF ALTERATION
OF THE ECOLOGICAL STATE OF WATERBODIES

Oleg Cadocinicov, Moldova

PESTICIDE MIGRATION IN THE UNSATURATED
ZONE

Irina Kosygina, Ukraine

COMBINED INVESTIGATION AND
DEDURISATION OF WATER BY POLYACRILIC
CATION EXCHANGERS

Alexei Maftuleac, Moldova

WATER DEDURISATION AND UTILIZATION OF
WASTES GENERATED BY POWER STATIONS
DURING THIS PROCES

Aliona Moldoveanu, Moldova

HOUSEHOLD WASTEWATER - A SOURCE OF
POLLUTION OF WATER RESOURCES

Constantin Moraru, Moldova

A NEW HYDROLOGIC AND GEOCHEMICAL
CLASSIFICATION OF NATURAL WATERS

Vitaliy Pustovit, Ukraine
THE INVESTIGATION OF COAGULATIVE
ACTIVITY OF ALUMINIUM AND IRON
CONTAINING COAGULANTS SDS

Vasile Rusu, Moldova
THE CONTENT OF VARIOUS FORMS OF
PHOSPHOROUS IN RIVER PRUT

Leonid Romanov, Moldova
NATURAL WATER FLUORINE
DECONTAMINATION BY ELECTRODIALYSIS
METHOD

Victoriya Tobilko, Ukraine
PURIFICATION SURFACE WATER FROM
RADIONUCLIDES

Tatyana Timoshenko, Ukraine
USE OF FERRITE METHOD IN THE PROCESSES
OF PURIFICATION OF URANIUM CONTAINING
WATER

- 16.00 – 17.00 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)
- 17.30 - 21.30 Cultural program

ECOLOGICAL CHEMISTRY OF AIR

Co-Chairman: *Anatolii Purnali, Russia*
 Alexandru Crachun, Moldova
 Valeriu Cazac, Moldova

Secretary: *Alexandr Aculinin, Moldova*

Saturday, May 21, 2005

- 09.00 - 09.15 **James Boggs, USA**
 THERMODYNAMICS OF RADICALS
 INVOLVED IN ATMOSPHERIC REACTIONS
- 09.15 – 09.30 **Ion Bahnarel, Moldova**
 SOME ASPECTS OF THE RADIOECOLOGIC
 MONITORING IN THE REPUBLIC OF
 MOLDOVA
- 09.30 – 09.45 **Boris Belan, Russia**
 THE CONTENT OF PLUME FROM
 INDUSTRIAL SOURCES AND THE STRUCTURE
 OF AEROSOL FIELDS ABOVE CITIES
 ACCORDING TO THE DATA OF AIRPLANE
 PROBING AND ON-LAND MEASUREMENTS
- 09.45 – 10.00 **Ruben Asatryan, Armenia**
 THE CONTROL OF CHEMICAL CONTENT OF
 GASEOUS POLLUTIONS IN THE ATMOSPHERE
 USING THE INFRARED MONITORING
 METHOD
- 10.00 – 10.15 **Bradley Flowers, USA**
 PHOTOLYSIS QUANTUM YIELDS FOR
 PEROXYACETYL NITRATE

- 10.15 – 10.30 **Igori Karoli, Russia**
1973-2004 ANNUAL VARIATION OF
OZONE CONTENT ON THE TERRITORY
OF NIS-COUNTRIES ACCORDING TO THE
MEASUREMENTS FROM AN ON-LAND
NETWORK OF STATIONS
- 10.30 – 10.45 **Martin Misakyan, Armenia**
THE AGRICULTURAL CONTROL AND
MEASUREMENT SYSTEM “ECOLOGY-
MICROCLIMATE”
- 10.45 – 11.00 **Svetlana Murashko, Ukraine**
CONDITIONS OF ANALYSIS OF AIR
ENVIRONMENT
POLLUTION BY PESTICIDES
- 11.00 – 11.20 Coffee break
- 11.20 – 11.35 **Konrad Muller, Germany**
AN INTEGRATED EFFORT FOR A BETTER
UNDERSTANDING OF ATMOSPHERIC
MULTIPHASE CHEMISTRY: LABORATORY,
MODELING AND FIELD STUDIES
- 11.35 – 11.50 **Alice Raducanu, Romania**
TECHNICAL SOLUTIONS FOR THE
ATTENUATION OF THE
OCCUPATIONAL NOXES AT THE
WORKPLACES
- 11.50 – 12.05 **Vladimir Brega, Moldova**
ACIDIFYING EMISSIONS AND DEPOSITIONS
IN THE NORTH PART OF THE REPUBLIC OF
MOLDOVA
- 12.05 – 12.20 **Gavriil Gilca, Moldova**
MONITORING OF AIR QUALITY
AND RELATED RESPIRATORY AND
CARDIOVASCULAR DISEASES IN MOLDOVA

- 12.20 – 12.35 **Leonid Shkaraputa, Ukraine**
ELABORATION OF AIR CONTROL
METHODS FOR THE TESTING OF
SULFOCARBATHYON-K IN AGRICULTURE
- 12.35 – 12.50 **Alexandr Voloh, Russia**
THE INVESTIGATION OF THE CONTENT OF
ATMOSPHERIC AIR IN KALMYKIA
- 12.50 – 13.00 **Mihail Zapevalov, Russia**
MONITORING OF VOLATILE ORGANIC
COMPOUNDS POLLUTION OF AMBIENT AIR
- 13.00 – 14.30 Launch
- 14.30-15.30 Posters presentation
- Boris Belan, Russia**
LONG-TERM MEASUREMENT OF THE
CONCENTRATION OF OZONE IN THE
AEROSOLS FROM TOMSK AND THEIR
POTENTIAL CAUSES
- Boris Belan, Russia**
THE INVESTIGATION OF THE
TRANSFORMATION OF COMPONENTS OF
PLUME FROM INDUSTRIAL ENTERPRISES
- Andrey Kiselyov, Russia**
THE SIMULATION OF THE ATMOSPHERIC
CONSEQUENCES OF BIG-SCALE FOREST
FIRES OF THE LAST YEARS IN SIBERIA AND
FAR-EAST
- Tatyana Rakitskaya, Ukraine**
CATALYSTS FOR LOW-TEMPERATURE
CARBON MONOXIDE
OXIDATION FOR RESPIRATORY PROTECTIVE
DEVICES

Tatyana Rakitskaya, Ukraine

PERSPECTIVE REAGENT METHODS FOR
AIR PURIFYING TO REMOVE OZONE
MICROCONCENTRATIONS

Alexandr Aculinin, Moldova

SMOKE AEROSOLS OVER MOLDOVA FROM
THE FIRES OCCURRED IN THE WESTERN
RUSSIA, BELARUS AND UKRAINE DURING
THE AUGUST – SEPTEMBER, 2002

Vladimir Bogillo, Ukraine

SOURCES, PARTITIONING AND TRANSPORT
OF HALOGENATED ORGANICS IN
ANTARCTIC ENVIRONMENT

Mariya Bazylevska, Ukraine

PARTITIONING OF VOLATILE ORGANIC
POLLUTANTS BETWEEN AIR AND
ENVIRONMENTAL INTERFACES

Oksana Rahmanova, Russia

COMPUTER STUDY OF ATMOSPHERIC
MOISTURE INTERACTION WITH
GREENHOUSE GASES

Vladimir Brega, Moldova

UNCERTAINTY MANAGEMENT AND
QUALITY ASSURANCE QUALITY CONTROL
IN NATIONAL GHG INVENTORY

Olga Covaliov, Moldova

THE NEW SOLUTIONS ON CATALYTICAL
COMBUSTION OF HYDROCARBON FUEL AND
AIR EMISSIONS TREATMENT

Alexandru Craciun, Moldova

THE EVALUATION OF THE IMPACT
OF HOMOGENOUS CATALYST ON
THE REDUCTION OF THE CONTENT
OF POLLUTING EXHOUSTS INTO THE
ATMOSPHERE FROM ENGINES WITH
INTERNAL COMBUSTION

Serghei Dmitriev, Moldova

CHALCOGENIDE GLASS SEMICONDUCTORS
FOR GAS SENSORS APPLICATIONS

Valerii Yurlov, Kazahstan

THE WAYS OF IMPROVEMENT OF THE
ELECTRIC APPLIANCES FOR DUST CAPTURE

Igor Ledenev, Ukraine

CATALYTIC DECOMPOSITION OF NITROUS
OXIDE (N_2O) OVER IRON CONTAINING
ZEOLITES AND RELATED MATERIALS

- 16.00 – 17.00 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)
- 17.30 – 20.30 Cultural program

ECOLOGICAL CHEMISTRY OF SOIL

Co-Chairs: *Wilkomirski Boguslaw, Poland*
Seymour D. Van Gundy, USA
Maria Gonta, Moldova
Secretary: *Veaceslav Boldescu, Moldova*

Saturday, May 21, 2005

- 09.00 – 09.15 **Valentin Ungureanu, Moldova**
ECOLOGICAL AGRICULTURE IN MOLDOVA
- 09.15 – 09.30 **Huseyin Ozkeser, Northern Cyprus**
EXTENT OF HEAVY METAL CONTAMINATION
OF SOIL AND PLANTS NEAR AN ABANDONED
COPPER MINE IN NORTH WESTERN CYPRUS
- 09.30 – 09.45 **Maria Gonta, Moldova**
FORMATION AND INHIBITION OF
N-NITROSOMETHYLUREA AND MORPHOLINE
IN THE SIMULATED GASTRIC JUCE
- 09.45 – 10.00 **Martha Orozco-Cardenas, USA**
HYDROGEN PEROXIDE AND NITRIC OXIDE
PLAY DIFFERENT ROLES IN PLANT DEFENCE
RESPONSES
- 10.00 – 10.15 **Lucian Halmagean, Romania**
THE INFLUENCE OF NITROGEN FERTILIZERS
ON THE ATMOSPHERIC NITROGEN FIXATION
PROCESSES FOR VEGETABLES
- 10.15 – 10.30 **Malgorzata Suska-Malawska, Poland**
POLYAROMATIC HYDROCARBONS
CONCENTRATION IN PEAT FROM DIFFERENT
PEATLANDS LOCATED IN SOUTHERN AND
SOUTH - WESTERN POLAND

- 10.30 – 10.45 **Irina Popescu, Romania**
THE IMPROVING OF SOME HORTICULTURAL
CHEMICAL PROPERTIES BY TREATMENT
WITH AMMONIUM MALEATE-VINYL ACETATE
COPOLYMER
- 10.45 – 11.00 **Fliur Macaev, Moldova**
ECOLOGICAL CHEMISTRY AND
STEREOSELECTIVE ORGANIC SYNTHESIS
- 11.00 – 11.20 Coffee break
- 11.20 – 11.35 **Susu Gheorghe, Moldova**
THE APPLICATION OF HERBECIDES IN
MOLDOVA'S AGRICULTURE
- 11.35 – 11.50 **Nicolae Sarpe, Romania**
HERBICIDES INFLUENCE UPON CERTAIN
QUALITATIVE FEATURES OF WINE
- 11.50 – 12.05 **Tamara Leah, Moldova**
NICKEL DISTRIBUTION IN CHATEN OF
CARBONATIC CHERNOZEMS
- 12.05 – 12.20 **Leonid Volosciuc, Moldova**
BIOLOGICAL PREPARATIONS IN ECOLOGICAL
AGRICULTURE
- 12.20 – 12.35 **Kakha Nadiradze, Georgia**
THE ORGANIC AND NON-ORGANIC FARMING
IN GEORGIA
- 12.35 – 12.50 **Elena Demchenko, Moldova**
ECOLOGICAL ASPECTS OF THE FUNCTIONING
OF SOIL INVERTEBRATES IN AGROCENOSSES
- 13.00 – 14.30 Lunch
- 14.30 - 15.30 Poster session

Lucian Halmagean, Romania

BIO FERTILIZERS – AN IMPORTANT NITROGEN SOURCE FOR SOWING VEGETABLES

Lucian Halmagean, Romania

THE PROCESS OF BIOLOGICAL FIXATION OF ATMOSPHERIC NITROGEN UNDER THE INFLUENCE OF FERTILIZERS WITH MACRO AND MICROELEMENTS

Larysa Anisimova, Ukraine

SOIL POLLUTION IN UKRAINE REGION

M. Rapchea, Moldova

OPPORTUNITIES FOR THE DEVELOPMENT OF ECOLOGICAL HORTICULTURE IN MOLDOVA

E. Emnova, Moldova

RESISTANCE OF BACTERIAL COMMUNITY IN SOYBEAN RHIZOSPHERIC SOIL POLLUTED BY COPPER

Elena Etcu, Moldova

THE ACTION OF THE BIOLOGICALLY ACTIVE PHYTOSTIM SUBSTANCE OF POD ACTIVITY IN THE PLANTS OF TWO SORTS WINTER WHEATS

Igor Iazlovetsky, Moldova

THE MONITORING OF ACARI-FAUNA OF APPLE GARDENS AND ITS SENSIBILITY TO PESTICIDES – A WAY TO THE FORMATION OF THE ECOLOGIC STABLE AGROCENOSIS

Igor Iazlovetsky, Moldova

THE MANAGEMENT OF RESISTANCE OF POPULATIONS OF CODLING MOTH

16.00 – 17.00 Closing session (in the Conference Hall of The Academy of Sciences of Moldova)

17.30 - 21.30 Cultural program

WASTE MANAGEMENT AND CLEANER PRODUCTION

Co-Chairs: *Matei Macoveanu, Romania*
Bahadir Muefit, Germany
Valentin Bobeica, Moldova

Secretary: *Tatiana Tugui, Moldova*
Ion Barbarosa, Moldova

Saturday, May 21, 2005

- 9.00-9.15 **Marta Sebastian, Poland**
THE IMPACT OF WASTE COMPOSITION ON
THE MUNICIPAL WASTE MANAGEMENT
STRATEGIES IN EUROPEAN CITIES
- 9.15-9.30 **Valery Rudic, Moldova**
NEW BILOGIC ACTIVE SUBSTANCES DERIVED
FROM OENOTANNINS FOR MEDICINE AND
AGRICULTURE
- 9.30-9.45 **Tatiana Tugui, Moldova**
SOLID WASTE MANAGEMENT IN THE REPUBLIC
OF MOLDOVA
- 9.45-10.00 **Marek Wasilewski, Poland**
ECOLOGICAL AND ECONOMICAL ADVANTAGES
OF THE IMPLEMENTATION OF CLEANER
PRODUCTION AT INDUSTRIAL PLANTS
- 10.00-10.15 **David Lempert, Russia**
THE PROBLEMS OF GENERATION OF NEW
SMOKELESS – GENERATING COMPOSITIONS
WITH LOW CONTENTS OF TOXIC COMBUSTION
PRODUCTS FOR VEHICLE SAFETY SAKS
- 10.15-10.30 **Madalina Zanoaga, Romania**
POLYMERIC WASTE RECYCLING BY BLENDING.
PREPARATION AND CHARACTERIZATION OF
NOVEL SPE/PA BLENDS

- 10.30-10.45 **Pavel Chintea, Moldova**
AGROINDUSTRIAL WASTE AS A SOURCE
OF BIOLOGICAL ACTIVE SUBSTANCES FOR
ECOLOGICAL APPLICATIONS
- 10.45-11.00 **Carmen Zaharia, Romania**
ENVIRONMENTAL IMPACT ASSESSMENT
GENERATED BY WASTE DEPOSITION INTO A
ROMANIAN URBAN LANDFILL
- 11.00-11.20 Coffee break
- 11.20-11.35 **Constantin Bulimaga, Moldova**
LANDFILLS OF MUNICIPAL WASTE - A
SOURCE OF CONTINUOUS ENVIRONMENTAL
POLLUTION
- 11.35-11.45 **Victor Covaliov, Moldova**
NEW SOLUTIONS FOR BIOCHEMICAL
PROCESSES OF WASTE WATER TREATMENT
AND BIOGAS GENERATION
- 11.45-12.00 **Svitlana Sukhorebra, Ukraine**
MAIN OUTCOMES OF DEVELOPING A PCBS
INVENTORY IN UKRAINE
- 12.00-12.15 **Ion Barbarasa, Moldova**
IMPACT OF POLYCHLORINATED BIPHENYLS
(PCBS) ON THE HUMAN HEALTH AND
ENVIRONMENT IN THE REPUBLIC OF
MOLDOVA
- 12.15 -12.25 **Annie Shoumkova, Bulgaria**
PHYSIC-CHEMICAL AND MORPHOLOGICAL
PROPERTIES OF FLY ASH FROM “VARNA”
POWER PLANT, BULGARIA
- 12.25 -12.40 **Marius Taranu, Moldova**
THE ASSESSMENT OF GHG EMISSIONS FROM
FERROUS METAL PRODUCTION FOR THE
PERIOD OF 1990-2002 IN MOLDOVA

- 12.40 -13.00 Discussion
- 13.00 -14.30 Lunch
- 14.30-14.45 **Oleg Belyi, Belarusi**
MONITORING OF POPS PESTICIDES LANDFILL
- 14.45-15.30 **Liliana Juc, Moldova**
STUDY AND ANALYSIS OF A LANDFILL IN THE
REPUBLIC OF MOLDOVA
- 15.00-15.15 **Gabrielle Charlotte Chitanu, Romania**
POLYMERS FOR ENVIRONMENT PROTECTION
- 15.15-15.30 **Valentin Bobeica, Moldova**
«CLEANER PRODUCTION» - INTEGRATIVE
PROCEDURES FOR POLLUTION PREVENTION
AND CHEMICALS MANAGEMENT
- 14.30-15.30 Poster presentation
- Oleg Bolotin, Moldova**
CHOICE OF THE PARAMETERS OF MOLDAVIAN
DIATOMITE FOR THE OBTAINING OF SORBENTS
FOR WATER
- Ilie Bucur, Romania**
OPTIMIZATION OF BIODIESEL PRODUCTION IN
SMALL ECOLOGICAL FARMS
- Constantin Bulimaga, Moldova**
THE LANDFILLS INFLUENCE ON THE
ENVIRONMENTAL
- Angela Cincilei, Moldova**
MANAGEMENT OF BENZOTHAZOLE
POLLUTANTS BY SELECTION AND USE OF
MICROORGANISMS

Ioan Cojocaru, Romania

TEHNICAL SOLUTIONS FOR THE
CONSTRUCTION OF LANDFILL FOR SOLID
WASTE IN HOLBOCA, IASI

T. Dudnicenco, Moldova

THE ALGAE USING IN THE WASTEWATER
TREATMENT

Eugen Iorga, Moldova

OPTIMIZATION OF THE PROCESS TO OBTAIN
SEEDS FROM DRIED GRAPE

Aliona Mereuta, Moldova

STUDY OF THE ADRENALINE EXTRACTION
PROCESS FROM SUPRARENAL GLANDS AND
METHOD FOR ITS STABILIZATION

Stephan Robu, Moldova

FOR THE QUESTION OF FINDING EFFICIENT
INFORMATION BEARERS ON THE BASE OF
PYRANE OR OXAZINE PHOTOCROMIC
MATERIALS

Leonid Romanov, Moldova

USING OF CARBONATE WASTES FROM MINING
INDUSTRY IN THE REPUBLIC OF MOLDOVA

- 16.00-17.00 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)
- 17.30 – 20.30 Cultural program

CHEMICAL RISK ASSESSEMENT

Co-Chairs: *Isaac B. Bersuker, USA*
Daniel Schlenk, USA
Maria Duca, Moldova
Secretary: *Igor Mardari, Moldova*

Saturday, May 21, 2005

- 09.00 – 09.15 **Mansour Zakikhani, USA**
RISK-BASED DECISION-MAKING MODELING
SYSTEM FOR SITE CLEANUP SUPPORT
- 09.15 – 09.30 **Piotr Gutry, Poland**
COMPARISON OF ORGANOCHLORINE
PESTICIDES AND PCBS LEVELS IN ARCTIC
AND ANTARCTIC LIMPETS – TESTUDINALIA
TESSELATA AND NACELLA CONCINNA
- 09.30 – 09.45 **Daniel Schlenk, USA**
EVALUATION OF MUSCLE AND LIVER TISSUES
OF THE WHITE SHARK *CARCHARODON*
CARCHARIAS FOR THE OCCURRENCE OF
ORGANOCHLORINE PESTICIDES IN SOUTH
AFRICA
- 09.45 – 10.00 **Shane Snyder, USA**
OCCURENCE AND ANALYTICAL METHODS
FOR ENDOCRINE DISRUPTORS AND
PHARMACEUTICALS
- 10.00 – 10.15 **Alla Udalova, Russia**
APPLICATION OF BIOINDICATION
APPROACH FOR AN ASSESSMENT OF
COMBINED TECHNOGENIC IMPACTS ON THE
ENVIRONMENT

- 10.15 – 10.30 **Vadim Zubritskii, Belarusi**
THE RISK ASSESSMENT OF THE
TRANSFORMATION OF NATURAL
ECOSYSTEMS OF BELARUSI UNDER THE
IMPACT OF ATMOSPHERIC MAN-CAUSED
NITROGEN AND SULFUR
- 10.30 – 10.45 **Yuri Chaika, Ukraine**
RISK ASSESSMENT OF THIRAM CONTAINING
PESTICIDES EXPOSURE TO OPERATOR AND
POPULATION
- 10.45 – 11.00 **Andrey Bubnov, Russia**
THE METHOD OF SELECTION OF PROCEDURES
FOR WASTEWATER TREATMENT WHILE
TAKING INTO CONSIDERATION THE
ECOLOGICAL RISK FACTORS
- 11.00 – 11.20 Coffee break
- 11.20 – 11.35 **Strikalenko Tatiana, Ukraine**
ECOTOXICOLOGY OF THE DRINKING WATER
- 11.35 – 11.50 **Madalina Zanoaga, Romania**
REDOX MEDIATED SECONDARY EFFECTS OF
FOOD ADDITIVES: CASE STUDY RELATED
TO PRESERVATIVES
- 11.50 – 12.05 **Oleg Bogdevich, Moldova**
THE EVALUATION OF HEAVY METAL SOURCES
IN THE REPUBLIC OF MOLDOVA
- 12.00 – 12.20 **Tatiana Izvetcova, Russia**
THE EVALUATION OF THE IMPACT OF WATER
QUALITY ON THE HEALTH OF HUMAN
POPULATIONS

12.20 –12.35 **Nicolae Opopol, Moldova**
WATER MANAGEMENT AND HUMAN HEALTH
PRINCIPAL THREATS

12.35 – 12.50 **Elena Zubcov, Moldova**
THE DYNAMICS OF METALS IN DNIESTER
RIVER ECOSYSTEMS

12.50 – 13.05 **Tatiana Stratulat, Moldova**
THE QUANTITATIVE EVALUATION OF THE
CONTENT OF SOME PRIORITY PESTICIDES
IN THE PLANT CULTIVATION AND WATER
PRODUCTION

13.05 – 14.30 Lunch

14.30-15.30 Poster session

Mihai Revenco, Moldova
THE CONTENT OF HEAVY METALS IN FOOD
PRODUCTS TINNED IN LACQUERED CANS

Gh. Tibirna, Moldova
THE IMPACT OF CHEMICAL POLLUTANTS ON
HUMANS AND THE ONCOGENESIS

Mary Ann Erwin, USA
CHEMICAL AND BIOLOGICAL EVALUATION
FOR ESTROGENIC COMPOUNDS IN SEDIMENTS
COLLECTED NEAR THE MUNICIPAL
WASTEWATER OUTFALL OF ORANGE COUNTY,
CALIFORNIA, USA

Raisa Ivanova, Moldova
THE EVALUATION OF PEROXYL RADICAL
SCAVENGING CAPACITY OF MOLDOVAN
GRAPE AND WINE IN VITRO: PRELIMINARY
STUDY

Victor Lupascu, Moldova
THE EVIDENCE OF MARKER CFP IN
TRANSGENIC PLANTS

Alexei Levitchi, Moldova
GENETIC CONTROL OF GMP USING *NOS*
TERMINATOR

15.30 – 16.30 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)

17.30 – 20.30 Cultural program

Ecological Policy and Legislation

Co-Chairs: *Galina Dragalina, Moldova*
Anca Duta, Romania
Constantin Mihailescu, Moldova
Secretary: *Ion Suman, Moldova*

Saturday, May 21, 2005

09.00 - 09.15 **C. Mihailescu, Moldova**
ENVIRONMENTAL EDUCATION AND
THE PRIORITIES OF THE PROTECTION
OF ENVIRONMENT IN THE REPUBLIC OF
MOLDOVA

09.15 – 09.30 **V.V. Lagutov, Russia**
SUSTAINABLE DEVELOPMENT - THE BASIC
SYSTEM OF WORLDS STRUCTURE OF THE
NEW CENTURY, ALREADY REQUIRES A
NEW ENVIRONMENTAL REGULATION AND
EDUCATION

- 09.30 – 09.45 **C. Manolache, Moldova**
SUSTAINABLE DEVELOPMENT: THE
INFLUENCE ON THE NATIONAL SECURITY
- 09.45 – 10.00 **A. Duta, Romania**
TRAINING LINE FOR SUSTAINABLE
DEVELOPMENT IN THE TRANSILVANIA
UNIVERSITY OF BRASOV, ROMANIA
- 10.00 – 10.15 **S. Covalchuk, Ukraine**
THE STRATEGIC CONCEPT OF SUSTAINABLE
DEVELOPMENT IN THE STAGE OF FORMATION
OF THE UKRAINIAN STATE SYSTEM
- 10.15 – 10.30 **I. Subotin, Moldova**
SOME LEGISLATIVE AND ECOLOGICAL
ASPECTS IN PRODUCING AND SELLING
GENETICALLY MODIFIED FOOD PRODUCTS IN
THE REPUBLIC OF MOLDOVA
- 10.30 – 10.45 **S. Deriagina, Russia**
THE FORMATION OF THE ECOLOGICAL POLICY
OF MUNICIPALITIES WITH THE PURPOSE OF
ASSURANCE OF TRANSITION TO SUSTAINABLE
DEVELOPMENT
- 10.45 – 11.00 **O. Cazantseva, Moldova**
THE BASIC APPROACHES TO THE FORMATION
OF THE ECOLOGICAL MANAGEMENT SYSTEMS
- 11.00 – 11.20 Coffee Break
- 11.20 – 11.40 **V. Nazarenco, Russia**
NEW APPROACHES IN THE ENVIRONMENTAL
EDUCATION OF THE POPULATION
- 11.40 – 11.55 **C. Modrogan, Romania**
NEW FERTILIZERS - A SUPPORT OF A
SUSTAINABLE AGRICULTURE

- 11.55 – 12.10 **A.Kucinscaya, Ukraine**
THE EXPEDITION INVESTIGATIONS OF
SURFACE WATERS OF THE DNIESTER’S RIVER
BASIN WITHIN THE LIMITS OF “PODOLSKY
TOVTRI” INSTITUTE
- 12.10 – 12.25 **C. Blajin, Moldova**
ENVIRONMENTAL EDUCATION – A BRANCH OF
ACTIVITY OF THE REGIONAL ENVIRONMENTAL
CENTER OF MOLDOVA
- 12.25 – 12.40 **L. Namolovan, Moldova**
ENVIRONMENTAL EDUCATION IN THE 21ST
CENTURY
- 12.40 – 13.00 **G. Dragalina, Moldova**
PECULIARITIES OF THE ENVIRONMENTAL
EDUCATION IN THE TEXTBOOKS OF HIGH
SCHOOL LEVEL EDUCATION
- 13.00 – 14.30 Lunch
- 14.30-15.25 Poster session
- L. Tuszynska, Poland**
ENVIRONMENTAL EDUCATION OF LOCAL
COMMUNITIES
- M. Aladzhev, Russia**
THE ENVIRONMENTAL ASSESSMENT OF THE
PROSPECTIVE ACTIVITY IN THE TATARSTAN
REPUBLIC
- V. Gladchi, Moldova**
THE ROLE OF NONGOVERNMENTAL
ORGANIZATIONS IN ENVIRONMENTAL
EDUCATION OF THE POPULATION
- 15.30 – 16.30 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)
- 17.30 – 20.30 Cultural Program

ELECTROCHEMISTRY AND ECOLOGY

Co-Chairs: *Alexandr Dicusar, Moldova*
Victor Covalev, Moldova
Secretary: *Olga Covaleva, Moldova*

Saturday, May 21, 2005

- 09.00 - 09.15 **P.M. Solojenkin, Russia**
THEORETICAL ASPECTS AND PRACTICAL
APPLICATION OF GALVANIC CHEMICAL
PROCESS FOR WASTEWATER TREATMENT
- 09.15 – 09.30 **V.V. Covalev, Moldova**
THE DEVELOPMENT OF GALVANIC CHEMICAL
TECHNOLOGY FOR THE PURIFICATION OF
INDUSTRIAL AND DRINKING WATERS
- 09.30 – 09.45 **I. Simineceanu, Romania**
RECOVERY OF AMMONIUM SULFATE FROM
WATERS BY ELECTRODIALYSIS
- 09.45 – 10.00 **E. Stezeryanskii, Ukraine**
OXIDATIVE DESTRUCTIONS OF SURFACTANTS
IN WASTE WATERS BY GLOW DISCHARGE
ELECTROLYSIS
- 10.00 – 10.15 **N. Stefaniak, Ukraine**
THE UTILIZATION OF LIQUID
METALCONTAINING RESIDUES
- 10.15 – 10.30 **K. A. Razdobin, Ukraine**
THREE-DIMENSIONAL ELECTRODE SYSTEMS
FOR PURIFICATION OF DILUTED SOLUTIONS

- 10.30 – 10.45 **A.I. Dicusar, Moldova**
ANODIC DILUTION OF IRON AND THE
KINETICS OF ELECTROCHEMICAL
PURIFICATION OF WATER FROM HEAVY METAL
IONS
- 10.45 – 11.00 **J.I. Bobanova, Moldova**
ECOLOGICAL ASPECTS OF THE THROWING
POWER INCREASING OF ELECTROLYTE
DURING INTENSIVE ELECTRODEPOSITION
- 11.00 – 11.20 Coffee-break
- 11.20 – 11.35 **A. Frolov, Russia**
DEVELOPMENT OF AN ELECTRO-FLOTATION
TECHNOLOGY FOR EXTRACTIVE SOLVENTS
REMOVAL ON THE BASIS OF OIL
- 11.35 – 11.50 **V. Kovalenco, Ukraine**
DIAPHRAGM ELECTRICAL COAGULATOR WITH
INSOLUBLE ANODE – INSTALLATION FOR
TREATMENT OF WASHING AND WASTE WATERS
- 11.50 – 12.05 **V. Matveevici, Moldova**
WASTEWATERS DECOLORIZATION
BY CHEMICAL TREATMENT AND
ELECTROCOAGULATION
- 12.05 – 12.20 **Monica Ihos, Romania**
BRANCH ELECTROCHEMICAL DEGRADATION
OF AZODYES FROM WASTEWATERS. 1. COLOUR
REMOVAL FROM A REACTIVE DYE AQUEOUS
SOLUTION
- 12.20 – 12.35 **F. Manea, Romania**
ELECTROCHEMICAL SENSING OF SODIUM
TARTRATE USING A COPPER/COPPER OXIDE
ELECTRODE

12.35 – 12.50 **D. Curchi, Moldova**
ELECTROKINETIC ASPECTS OF PHASES
INTERACTIONS IN O/W FOOD EMULSIONS

12.50 – 14.30 Lunch break

14.30-15.25 Poster Session

O. Covaleva, Moldova
SELECTIVE ELECTROCHEMICAL METHODS
OF METALS A ELECTROLYTE GENERATION IN
GALVANIC TECHNIQUES

V. Kosov, Moldova
THE MECHANISM OF DESTRUCTION OF STEEL
CONSTRUCTIONS UNDER THE INFLUENCE OF
ENVIRONMENT

A. Mihailiuc, Moldova
INTRODUCTION OF POOR SOLUBLE
ANODES FOR CATHODE PROTECTION
AGAINST CORROSION – A METHOD OF SOILS
PROTECTION FROM POLLUTION

V. Iambartsev, Moldova
THE STUDY OF THE PROCESS OF DECREASING
OF NITRATES CONTENT IN SIMULATED
SOLUTIONS DURING ELECTROCHEMICAL
TREATMENT

I. Muldagalieva, Kazakhstan
ELECTRIC CHEMICAL ASPECTS IN RELATION
TO ENVIRONMENT

J. Bobanova, Moldova
ELECTRIC DEPOSITION OF METALS IN THE
PRESENCE OF ORGANIC ADDITIVES

T. Oumarova, Tadjikistan

THE APPLICATION OF REUSED ALUMINUM
FOR THE PURPOSE OF PROTECTION AGAINST
CORROSION

V. Petrenco, Moldova

ELECTRIC COAGULATION PURIFICATION OF
WATER AFTER ELECTRIC EROSION CUTTING
OF SEMICONDUCTOR MATERIALS

T. Cazac, Moldova

THE ANALYSIS OF HEAVY METALS IN
NATURAL WATERS BY ABSORPTIVE
VOLTAMETRY WITH STRIPPING CATHODE

M. Revenco, Moldova

REAGENTS ADSORPTIVE ACCUMULATION OF
CADMIUM FROM NATURAL WATERS ON THE
MERCURY ELECTRODES

L. Gagara, Moldova

ELABORATION OF NEW METHOD OF LAYING
CdS AND ZnCdS FOR THE SENSORS USED IN
ENVIRONMENTAL CONTROL

V. Parshutin, Moldova

CORROSION OF METALS IN NATURAL AND
TECHNIQUE WATERS IN MOLOVA

15.30 – 16.30 Closing session (in the Conference Hall of The
Academy of Sciences of Moldova)

17.30 - 20.30 Cultural Program