

Conference Program 2011

International Workshop Environmental Forensics

Tbilisi, Georgia, September 12-16, 2011

12th September, Monday

18:00-19:30 Registration, Centre “Muza”
19:45-22:30 Welcome Reception, Centre “Muza”

13th September, Tuesday, am

Welcome and Introduction

08:00-08:50 Registration

09:00-09:05 **Mrs. Ekaterina Alferova**, Department of Foreign Affairs and International Trade of Canada, Global Partnership Program, Ottawa, Canada

09:05-09:10 **Dr. Landis Henry**, Deputy Executive Director, Science and Technology Center in Ukraine (STCU), Kiev, Ukraine

09:10-09:15 **Mrs. Valentina Rudneva**, Senior Project Manager, Scientific Supervisor of Environmental Program, International Science and Technology Center (ISTC), Moscow, Russia

09:15-09:20 **Dr. Konstantin Volchek**, Research Manager, Environmental Restoration Section Environment Canada, Emergencies Science and Technology Section, Ottawa, Canada

Technical session 1. **Environmental Law**

Moderators: **Dr. Svyatoslav Kurulenko**, Ministry of Environment and Natural Resources, Kiev, Ukraine
Dr. Natalia Khludeneva, Institute of legislation and comparative law under the Russian Federation Government, Moscow, Russia

09:30-10:00 **Dr. Yvan Razafindrindra**, “*Overview of Environmental Laws in France*”, Adams Law Firm, Paris, France

10:00-10:20 **Dr. Nikolay Kichigin**, “*Role of judicial-ecological examination in realization of requirements of the legislation on preservation of the environment*”, Institute of legislation and comparative law under the Russian Federation Government, Moscow, Russia

10:20-10:40 **Dr. Vyacheslav Potapenko**, “*Legal Norms of Environmental Protection in Ukraine*”, National Institute for Strategic Studies, Kiev, Ukraine

10:40-11:00 **Dr. Gahraman Hasanov**, “*Regularities percolation of oil (oil products) in soil profile of the coastal zone of the Caspian sea. Regulatory indications of pollution rate of soil*”, Special Design Engineering Office on complex treatment of mineral raw materials, Baku, Azerbaijan

11:00-11:10 Discussions

11:00-11:25	Coffee break
Moderators:	Dr. Yvan Razafindrindra , Adams Law Firm, Paris, France Dr. Nikolay Kichigin , Institute of legislation and comparative law under the Russian Federation Government, Moscow, Russia
11:30-11:50	Dr. Natalia Khludeneva , “ <i>Actual problems of legal regulation environmental protection in Russia and in selected foreign countries: trends and forecast</i> “, Institute of legislation and comparative law under the Russian Federation Government, Moscow, Russia
11:50-12:10	Dr. Natalya Chernykh , “ <i>Training of forensic experts in the field of ecology</i> “, Peoples' Friendship University of Russia, Ecological faculty, Moscow, Russia
12:10-12:30	Dr. Svyatoslav Kurulenko , “ <i>Strategy of State Environmental Policy of Ukraine</i> “, Ministry of Environment and Natural Resources, Kiev, Ukraine
12:30-12:50	Dr. Lyudmila Bobritskaya , “ <i>Legal aspects of activities on elimination of obsolete pesticides in Tajikistan</i> “, Center on Implementation of Stockholm Convention on POPs, Dushanbe, Tajikistan
12:50-13:00	Discussions
13:00-14:00	Lunch

Technical session 2. **Characterization of Environmental Pollutants**

Moderators:	Dr. Richard Kolacz , Com Dev, Cambridge, Ontario, Canada Dr. Grigory Shmatkov , Scientific-Production Enterprise Centre of Environmental Audit and Clean Technologies, Dnepropetrovsk, Ukraine
14:05-14:35	Dr. Grigory Shmatkov , “ <i>The ecological situation in Ukraine in the aspects of general and radiation safety</i> “, Scientific-Production Enterprise Centre of Environmental Audit and Clean Technologies, Dnepropetrovsk, Ukraine
14:35-15:00	Dr. Gennady Zharikov , “ <i>Application of international standards on soil sampling and biosafety assurance when conducting microbial remediation of soils contaminated by toxic chemicals: Russian experience</i> “, Environmental Biotechnology at the SFES " Research Center for Toxicology and Hygienic Regulation of Biopreparations" at Federal Medico-Biological Agency of the Russian Federation, Serpukhov, Moscow region, Russia
15:00-15:20	Dr. Alexei Konoplev , “ <i>Polychlorinated dioxins and other POPs in the environment of Russian Federation</i> “, RPA “Typhoon” of Roshydromet, Obninsk, Russia
15:20-15:30	Discussions
15:30-15:45	Coffee break
Moderators:	Dr. Konstantin Volchek , Research Manager, Environmental Restoration Section Environment Canada, Emergencies Science and Technology Section, Ottawa, Canada Dr. Gennady Zharikov , Research Center for Toxicology and Hygienic Regulation of Biopreparations" at Federal Medico-Biological Agency of the Russian Federation, Serpukhov, Moscow region, Russia
15:50-16:10	Dr. Sergei Melnov , “ <i>Integrated assessment of heavy metal pollution in big industrial center</i> , International Sakharov Environmental University, Minsk, Belarus
16:10-16:30	Dr. Vladimir Kapranov , “ <i>Integral toxicity assessment of soil and silt contaminated by polychlorinated biphenyls</i> ” Research Center for Toxicology and Hygienic

16:30-16:50	Regulation of Biopreparations at Federal Medico-Biological Agency of the Russian Federation, Serpukhov, Moscow region, Russia Dr. Alexander Maslennikov , “ <i>Russian Regulation Principles of Environment Chemical Contamination</i> ”, Research Institute of Hygiene, Toxicology and Occupational Pathology at Federal Medical and Biological Agency (RIHTOP at FMBA Russia), Volgograd, Russia
16:50-17:10	Dr. Marina Kosevich , “ <i>Applications of desorption mass spectrometry to characterization of environmental pollutants</i> ”, B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine
17:10-17:20	Discussions

14th September, Wednesday, am

Technical session 3. Environmental Monitoring: Investigation, Methods and Tools

Moderators:	Dr. Stephen Mudge , honorary member of the University of Wales, work through Exponent, Bangor, UK Prof. Arkady Shapar , Institute for Nature Management Problems and Ecology, Dnepropetrovsk, Ukraine
09:00-09:30	Dr. Court D. Sandau , “ <i>Environmental forensics and POPs</i> ”, TRIUM Environmental Inc., Calgary, Canada
09:30-09:50	Dr. Grigory Aleksenko , “ <i>Environmental Monitoring and Impact of Contaminants</i> ”, Ministry of Emergency Situations, Kiev, Ukraine
09:50-10:10	Dr. Andrei Skorokhod , “ <i>Detection of atmospheric pollution sources using mobile railway laboratory TROICA</i> ”, A.M. Obukhov Institute of Atmospheric Physics RAS, Moscow, Russia
10:10-10:30	Dr. Natalia Stozhko , “ <i>Development of sensors, software and hardware for environmental monitoring</i> ”, Ural State University of Economics, Yekaterinburg, Russia
10:30-10:40	Discussions
10:40-10:55	Coffee break
Moderators:	Dr. Court D. Sandau , TRIUM Environmental Inc., Calgary, Canada Dr. Natalia Stozhko , Ural State University of Economics, Yekaterinburg, Russia
11:00-11:30	Dr. Stephen Mudge , “ <i>Lipid biomarkers for source ID tracking sewage</i> ”, honorary member of the University of Wales, work through Exponent, Bangor, UK
11:30-11:50	Dr. Arkady Shapar , “ <i>Development of regional and urban systems of integrated environmental monitoring of the industrial regions of Ukraine</i> ”, Institute for Nature Management Problems and Ecology, Dnepropetrovsk, Ukraine
11:50-12:10	Dr. Oleg Bogdevich , “ <i>Environmental impact assessment for inventory of POP’s contaminated sites in Moldova</i> ”, Institute of Geology and Seismology, Chisinau, Moldova
12:10-12:40	Dr. Markus Lemke , “ <i>Title to be determined</i> ”, Dycor Technologies Ltd., Edmonton Research Park, Alberta, Canada
12:40-12:55	Discussions

12:55-13:55	Lunch
Moderators:	Dr. Stephen Mudge , honorary member of the University of Wales, work through Exponent, Bangor, UK Dr. Court D. Sandau , TRIUM Environmental Inc., Calgary, Canada
14:00-14:30	Dr. Richard Kolacz , “ <i>Development of an international implementation concept for monitoring from Space</i> ”, Com Dev, Cambridge, Ontario, Canada
14:30-14:50	Prof. Borys Stegny , “ <i>Critical aspects of biosafety and biosecurity of emergence animal diseases</i> ”, Institute of experimental and clinical veterinary medicine, Kharkov, Ukraine
14:50-15:00	Discussions
15:00-15:15	Coffee break
15:20-15:40	Sergey Golovachev , “ <i>Precision operative spectroellipsometry for natural and waste water quality control</i> ”, Kotel’nikov Institute of Radioengineering & Electronics, Russian academy of sciences, Fryazino, Russia
15:40-16:00	Nadezhda Medvedeva , “ <i>Expertise of monitoring of the Baltic Sea chemical weapon dump sites</i> ”, Head of Laboratory of Biological methods of Scientific Research Centre for Ecological Safety, Russian Academy of Sciences St. Petersburg, Russia
16:00-16:10	Discussions

16:10-17:30 Poster session*

15th September, Thursday, am

Technical session 4. Oil Fingerprinting and Spill Identification

Moderators:	Dr. Zhendi Wang , Environment Canada, Ottawa, Canada Dr. Grigory Barenboim , Institute of Water Problems of Russian Academy of Sciences, Moscow, Russia
09:00-09:30	Dr. Zhendi Wang , “ <i>Forensic fingerprinting and source identification of spilled oil</i> ”, Environment Canada, Ottawa, Canada
09:30-10:00	Dr. Grigory Barenboim , “ <i>New approaches to the assessment of biological hazards of oil spills (scientific, technological and legal aspects)</i> ”, Institute of Water Problems of Russian Academy of Sciences, Moscow, Russia
10:00-10:30	Dr. Oleg Fedorov , “ <i>Oil Spills Identification and Risk Assessment in Black Sea Region</i> ”, Space Research Institute, Kiev, Ukraine
10:30-10:40	Discussions
10:40-10:55	Coffee break

Technical session 5. Mitigation of Environmental Health Risk

Moderators:	Prof. Borys Stegny , Institute of experimental and clinical veterinary medicine, Kharkov, Ukraine Dr. Oleg Dobrokhotsky , Federal State Health Care Enterprise “Medical Department #164” of Federal Medico-Biological Agency, Obolensk, Moscow region, Russia
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11:00-11:20	Dr. Anna Shalanda , <i>“Health Risk Assessment of Serpukhov Contaminated Polychlorinated Biphenyls Territory”</i> , Immunopharm Ltd., Obolensk, Moscow region, Russia
11:20-11:40	Dr. Olena Yegorova , <i>“Organization of environmental monitoring to assess the effects of biological weapons use”</i> , Ukrainian Mechnikov Anti-Plague Research Institute, Odessa, Ukraine
11:40-12:00	Dr. Andriy Volyanskiy , <i>“Prevalence of some clinically meaningful infections in Ukraine, potential risks for population health”</i> , I.Mechnikov Institute of microbiology and immunology, Kharkov, Ukraine
12:00-12:20	Dr. Erlan Ramanculov , <i>“Ecological and Epidemiological Survey of the Environment in the Republic of Kazakhstan”</i> , National Center for Biotechnology of Republic of Kazakhstan Astana, Kazakhstan
12:20-12:40	Dr. Oleg Dobrokhotsky , <i>“Environmental contamination prevention by pathogenic microorganisms on the basis of the concept of risks”</i> , Federal State Health Care Enterprise “Medical Department #164” of Federal Medico-Biological Agency, Obolensk, Moscow region, Russia
12:00-12:50	Discussions
12:50-13:50	Lunch

Technical session 6. Contaminated Site Investigation

Moderators:	Dr. Yi Wang , Zymax, San Diego, California, USA Dr. Viktor Butkovskiy , Dnepropetrovsk Regional Administration of Emergency Situations, Dnepropetrovsk, Ukraine
14:00-14:30	Dr. Carl Brown , <i>“Applications of remote sensing in environmental forensics”</i> , Environment Canada, Ottawa, Canada
14:30-14:50	Dr. Viktor Butkovskiy , <i>“Cooperation of various agencies in the prevention and elimination of accidents and disasters”</i> , Dnepropetrovsk Regional Administration of Emergency Situations, Dnepropetrovsk, Ukraine
14:50-15:10	Dr. Avtandil Dolidze , <i>“Identification of Long-term pollution of Military Airfields by GC/MS”</i> , P.Melikishvili Institute of Physical and Organic Chemistry at Iv.Javakhishvili Tbilisi State University, Tbilisi, Georgia
15:10-15:30	Dr. Stanilav Vesnovsky , <i>“Radiochemical aspects of environmental research of accidents involving radioactive materials”</i> , RFNC-VNIIEF, Sarov, Russia
15:30-15:40	Discussions
15:40-15:55	Coffee break
Moderators:	Dr. Carl Brown , Environment Canada, Ottawa, Canada Dr. Markus Lemke , Dycor Technologies Ltd., Edmonton Research Park, Alberta, Canada
16:00-16:30	Dr. Yi Wang , <i>“Environmental Isotope Forensics for Site Investigation and In Situ Bio-Remediation”</i> , Zymax, San Diego, California
16:30-16:50	Dr. Oleksandr Slobodyanyuk , <i>“Micro Raman forensic fingerprinting for monitoring and impact of contaminants: Chernobyl “hot” particles case”</i> , T.Shevchenko National University, Kiev, Ukraine
16:50-17:10	Dr. Lars Carlsen , <i>“Prioritization tools in Environmental Forensics”</i> , Kazakh-British Technical University, Awareness Center, Almaty & Roskilde, KZ&DK

17:10-17:20 Discussions

16th September, Friday, am

10:00-12:00 Visit to National Center for Disease Control and Public Health (NCDC) of Georgia

14:00-20:00 Cultural program and closing reception

***Poster Authors:**

1. **O. Stoliar** “*New approaches for assessment of environmental toxicity: experience of Ukraine*“, Ternopol National Pedagogical University, Ternopol, Ukraine
2. **M.Tediashvili** “*Personal statement /Description of scientific activities*“, Bacteriophage, Microbiology and Virology, Tbilisi, Georgia
3. **L.Eksperiandova** “*Environmental monitoring: fast determination of perchlorates in the natural water*“, Institute of single Crystals, Kharkov, Ukraine
4. **M. Zhurba** “*Specialized Database for radioecological monitoring and expertise of the contaminated territories for their return to the economical use (at the example of the Chernobyl accident)*“, Ukrainian Institute of Agricultural Radiology of National University of Life and Environmental Sciences of Ukraine, Kiev, Ukraine
5. **N. Asatiani** “*Effect of Chromium (VI) action on Arthrobacter oxydans*“, Andronikashvili Institute of Physics, Tbilisi, Georgia
6. **M. Mirtskhulava** “*Regional Evaluation of Mining-related Metals Contamination, Risks and Innovative Remediation Technologies in Ukraine and Georgia*“, National Center for Disease Control and Public Health, Tbilisi, Georgia
7. **M. Vakiv** “*High-reliable nanostructured multilayers for permanent climate-change monitoring and environmental ecological control*“, Scientific Research Company “Carat”, Lvov, Ukraine
8. **A. Tarita** “*Environmental contamination with obsolete pesticide*“, Institute of Ecology and Geography, Chisinau, Moldova
9. **T. Onashvili** “*Countermeasures for the control of African Swine Fever in the Republic of Georgia*“, Laboratory of Ministry of Agriculture of Georgia, Tbilisi, Georgia
10. **T. Sanikidze** “*SEE in Action: Examples of different cases*“, Tbilisi State Medical University, Tbilisi, Georgia
11. **A. Chirakadze** “*Environmental, economical, social conditions and demographic threats in Caucasus, Ukraine and Russia in relation with toxic pollution of Environment*“, St. Andrew First Called Georgian University, Tbilisi, Georgia
12. **V. Gvakharia** “*Environmental audit and prospective of decontamination-remediation methods to be used in highland of Georgia contaminated with toxic waste*“,

A. Tvalchrelidze Geology Institute, I. Chavchavadze Tbilisi State University, Tbilisi, Georgia

13. **M. Kvachantiradze** *“Behavior of Long Lived Radionuclides on the Territory of Georgia”*, L. Kanchaveli Institute of Plants Protection, Tbilisi, Georgia
14. **N. Giuashvili** *“Extrapolation of POPs laboratory analysis in Georgia”*, National Center for Disease Control and Public Health, Tbilisi, Georgia
15. **N. Gabriadze** *“Marganeze ecotoxicological Impact on the Health status of children, 2010”*, National Center for Disease Control and Public Health, Tbilisi, Georgia
16. **Z. Svanidze** *“Environmental Pollution by heavy metals”*, Georgian Technical University, Tbilisi, Georgia
17. **N. Sapojnikova** *“Even low doses of Cr (VI) can impair cell defense mechanisms”*, Andronikashvili Institute of Physics Tbilisi, Georgia
18. **R. Gigauri** *“Developing of chemical testing methods and bench-scale testing of biological and chemical-biological decontamination methods to be used in hot-spots of Georgia”*, Agladze Institute of Inorganic Chemistry and Electrochemistry, I. Chavchavadze Tbilisi State University, Tbilisi, Georgia
19. **M. Gagoshidze** *“Multy-profile search of toxic impact on infant and adolescent health in correlation with arsenic contamination of areas”*, Institute of Hematology and Transfusion, Department of Pediatrics of Tbilisi State Medical University, Tbilisi, Georgia
20. **E. Babayev** *“Role of Biomarker Hydrocarbons in Identifying a Source of Oil Contamination”*, Institute of Chemical Additives, Baku, Azerbaijan
21. **N. Javadov** *“Ozonizing of aqueous phenol solution”*, Petrochemical Experimental Industrial Plant, Baku, Azerbaijan