

**«PROBLEMS
OF NATURE MANAGEMENT,
SUSTAINABLE DEVELOPMENT
AND TECHNOGENIC
SAFETY REGIONS»**



PROGRAM

**the Seventh International
scientific and practical
conference
*(to the 95th anniversary of the National
Academy of Sciences of Ukraine)***

*October 8-11, 2013
Dnipropetrovsk, Ukraine*



Dear Colleagues!

We are glad to invite you to the *Seventh International Scientific and Practical Conference «PROBLEMS OF NATURE MANAGEMENT, SUSTAINABLE DEVELOPMENT AND TECHNOGENIC SAFETY REGIONS»*, which will be conducted by the Institute for nature management problems & ecology October 8-11, 2013 (Dnipropetrovsk, 6 Moskovskaya str.).

Conference opens October 8th 2013 at 10 AM in the Great Hall of the Institute (III floor).

Schedule Time:

- √ reports at the plenary session - up to 20 min.;
- √ reports at the working groups - up to 10 min.;
- √ speeches during discussing - up to 5 min.

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ORGANIZERS:

Department of Earth Sciences National Academy of Sciences of Ukraine
Dnipropetrovsk Regional State Administration
Dnipropetrovsk Regional Council
Dnipropetrovsk Municipal Council
Pridneprovsky Research Center of NAS and MES of Ukraine
Institute for Nature Management Problems & Ecology of the NAS of Ukraine
Friends of the Earth Europe
Poltava National Technical University named after Y.Kondratyuk
Metallurgical National Academy of Ukraine

ORGANIZING COMMITTEE:

Co-chairs of the organizing committee:

BULAT A.F., head of Prydniprovsky Research Center of NAS and MES of Ukraine, Academician of the NAS of Ukraine, Kiev (Ukraine)

SHAPAR A.G., director of the Institute of Natural Resources and Environment of NAS of Ukraine, member of the National Academy of Sciences of Ukraine, Kiev (Ukraine)

SHESTOPALOV V.M., Academician-Secretary of the Department of Earth Sciences of NAS of Ukraine, academician of NAS of Ukraine, Kiev (Ukraine)

HELLER D., international coordinator of Friends of the Earth Europe, Brussels (Belgium)

Members of the committee:

ONISCHENKO V.O., rector of National Technical University named after Y. Kondratyuk, Poltava (Ukraine)

RAKISHEV B.R., Kazakh National Technical University, Almaty (Kazakhstan)

RUDENKO L.G., Institute of Geography of NAS of Ukraine, Academician NAS of Ukraine, Kiev (Ukraine)

KUZMENKO A.V., city mayor of the Zhovti Vody, (Ukraine)

BANDOPADHAYA S., University of Alaska, Ferbanks (USA)

CHIKHRADZE N.M., LEPL Mining Institute. G.A. Tsulukidze, Tbilisi (Georgia)

CHERIN'KO P.M., Presidium of the NAS of Ukraine, Kiev (Ukraine)

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WE ARE GRATEFUL TO ALL FOR THE SPONSORSHIP OF THE CONFERENCE!

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AGENDA OF THE CONFERENCE

1-st Day Tuesday, October 8, 2013

9.00 – 10.00	Registration	3rd floor of the Institute
10.00 – 13.00	Opening of the conference First plenary session	Great Hall of the Institute (3rd floor)
13.00 – 14.00	Coffee Break / Lunch Break	City cafes
14.00 – 17.00	Working groups of the conference	On a special schedule
18.00 – 19.00	Welcome Reception of the conference	Great Hall of the Institute (3rd floor)

2-nd Day Wednesday, October 9, 2013

9.00 – 13.00	Second plenary session	Great Hall of the Institute (3rd floor)
13.00 – 14.00	Coffee Break / Lunch Break	City cafes
14.00 – 18.00	Working groups of the conference	On a special schedule
from 13.00	Excursions	

3-d Day Thursday, October 10, 2013

9.00 – 13.00	Работа секций конференции	On a special schedule
13.00 – 14.00	Coffee Break / Lunch Break	City cafes
14.00 – 18.00	Working groups of the conference	On a special schedule
from 9.00	Industrial tours & excursions	

4-th Day Friday, October 11, 2013

9.00 – 10.30	Closing plenary session	Great Hall of the Institute (3rd floor)
from 11.00	Excursions	

CONFERENCE SESSIONS

Section 1. Sustainable development and nature conservation.

Section 2. Natural resource potential in the territories and biodiversity conservation.

Section 3. The problems of the River Dnipro Basin ecosystem.

Section 4. Environmental monitoring, environmental and technogenic safety.

Section 5. Environmental outlook in the XXI century.

Section 6. Theory and practice of environmental issues in the metallurgical and mining industries.

CONFERENCE PROGRAM

PLENARY SESSION

(1-st Day Tuesday, 8 October 2013 - 10-13 h, Great Hall of the Institute (3rd floor))

OPENING.

WELCOME OF PARTICIPANTS

REPORTS:

Shapar A.G.

"AGENDA AT THE XXI CENTURY" - SUSTAINABLE DEVELOPMENT. WHAT'S NEXT?

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Shapar A.G., Yemetz M.A., Burkinisky B.V. Harichkov S.K., Rudenko L.G. Lisovsky S.A., Cherinko P.M.

PROBLEMS of INTRODUCE of SUSTAINABLE DEVELOPMENT PRINCIPLES IN UKRAINE

Shmatkov G.G.

POWER ASPECTS OF SUSTAINABLE DEVELOPMENT OF UKRAINE

Bandopadhyay Sukumar

**MINE CLOSURE, SUSTAINABLE DEVELOPMENT & CORPORATE SOCIAL RESPONSIBILITY:
AN EMERGING PARADIGM IN MINE PLANNING**

Matsko NA

GROWTH IN RESOURCE BASED ECONOMIES

Hvesyk M.A.

ENVIRONMENTAL PROBLEMS of the DNIPRO RIVER BASIN and SOLUTIONS

Tkach V.P.

ECOLOGICAL ROLE OF FORESTS AND OPTIMAL PERCENTAGE OF FOREST IN UKRAINE

Antoine Simon (*via SKYPE*)

SHALE GAS, A BRIDGE TO NOWHERE - THE MYTH OF THE TRANSITION FUEL

PLENARY SESSION

(2-nd Day Wednesday, October 9, 2013 - 9-13 h, great hall of the Institute (3rd floor))

Sergeev V.V., Kopach P.I.

THE MAIN PATH to ACHIEVE of SUSTAINABLE DEVELOPMENT in MINING and METALLURGICAL REGIONS

Rakishev B.R.

DISTRIBUTION OF ENERGY CONSUMPTION by EXPLOSIVE DESTRUCTION of ROCK and ITS IMPACT on ENVIRONMENT

Gluhov A.Z., Prikhodko S.A., Zhukov S.P.

REVIVAL of MINING DISTURBED ECOSYSTEM in DONBAS

Mikhailov A.

GEOTECHNICAL PREPARATION OF TECHNOGENIC PLACER DEPOSITS

Lyalko V.I. Asimov O.T., Yakovlev E.A.

THE AEROSPACE and HYDRO-GEOLOGICAL METHODS in the DECISION of TASKS of ECOLOGICAL SAFETY at PRODUCTION of SHALE GAS in UKRAINE

Kobets A.S., Hrytsan Y.I., Catan L.I.

AGROLANDSCAPES RECOVERY AND DECREASE OF ECODESTRUCTIVE EFFECT ON THE ENVIRONMENT IN DNIPROPETROVSK REGION

Shapar A.G., Skrypnyk O.O., Chily D.V.

POSSIBLE TECHNICAL SOLUTIONS FOR RETURN TEHNOEKOSYSTEM OF THE DNIPRO TO THE NATURAL STATE

Petyuh G.P.

PROBLEMS of IMPLEMENTATION of BIOSAFETY WHEN USING GENETICALLY MODIFIED ORGANISMS in UKRAINE

Shapar A.G., Shmatkov G.G., Petrenko V.P., Kuz'menko A.V., Mozheiko A.V., Tyapkin O.K., Yemets M.A.

EXPERIENCE and PROBLEMS of IMPLEMENTATION of the MONITORING SYSTEM

CHRONICLE of the DNIPRO RIVER by PICTURES and COMMENTS

(from the archives of the writer Topachevsky A.O.)

dedicated to the memory of the great scientist, academician Alexander Viktorovich Topachevsky (1897-1975)

WORKING GROUPS

October 8-10, 2013

SECTION 1. SUSTAINABLE DEVELOPMENT AND NATURE CONSERVATION.

(Great Hall of the Institute (3rd floor))

EXECUTIVES:

Yemetz M.A., Tyapkin O.K.

Institute for Nature Management Problems & Ecology of the NAS of Ukraine

REPORTS:

Hymynets V.V.

SUSTAINABLE DEVELOPMENT OF THE CARPATHIAN REGION IN THE CONTEXT OF EUROPEAN INTEGRATION POLICY UKRAINE

Khazan V.B., Khazan P.V.

DETERMINATION OF ENVIRONMENTAL SAFETY ON THE BASIS OF INVESTIGATION OF ENVIRONMENTAL RISKS

Kopach P.I., Yakubenko L.V., Romanenko V.N., Shmatkov G.G., Chikhradze N.M., Khomeriki S.K., Michelson R.V., Mataradze E.D.

ENGAGING PROSPECTS IN EXPLOITATION OF TECHNOGENIC DEPOSITS (ON EXAMPLE OF UKRAINE AND GEORGIA)

Khazan P.V., Anhurets E.V.

IMPLEMENTATION OF CORPORATE SOCIAL RESPONSIBILITY AT THE ENTERPRISES OF MINING INDUSTRY AS A CONDITION FOR SUSTAINABLE DEVELOPMENT OF THE TERRITORY

Sweet V.D., Bespalko R.I., Kasimir I.I.

COMPLIANCE WITH POLICY OF THE CARPATHIAN CONVENTION, on an EXAMPLE of CHERNIVTSI REGION

Prokopenko V.V.

INTERRELATION BETWEEN ECONOMIC AND ENVIRONMENTAL PROBLEMS OF NATURE MANAGEMENT AT THE PRESENT STAGE

Mormul T.N., Litvinov, Y.I.

SELECTION OF EARTH-SAVING TECHNOLOGIES FOR OPENING THE SEALED OF MINING AND DEPENDING ON THEIR SHAPES AND SIZES

Chikhradze N.M., Khomeriki S.K., Michelson R.V., Khomeriki D.G.

TERMS OF WASTE OF THE MINERAL DURING PRODUCTION UNITS FACING STONE FACING STONE AND THEIR REDUCTION

Drozd I.P., Guly A.V., Kopanytsya O.B.

SUSTAINABLE DEVELOPMENT AND TECHNOGENIC IMPACT ON THE ENVIRONMENT

Scrap P.A., Oleinik A.G.

FORMAL INTEGRATION OF KNOWLEDGE FOR SOLVING PROBLEMS for SUSTAINABLE DEVELOPMENT AREAS

Kryvsun A.A., Andreeva O.V.

SOME SUGGESTIONS FOR IMPROVING OF THE RADIOACTIVE WASTE MANAGEMENT

Shtets V.S.

ECOLOGICAL AND ECONOMIC CAUSES AND DEVELOPMENT PRIORITY TASKS FOR ACTION LOW CARBON DEVELOPMENT IN UKRAINE

Nazarevich L.E.

SEISMICITY LVIV REGION AND GEOECOLOGY PROBLEMS

**SECTION 2. NATURAL RESOURCE POTENTIAL IN THE TERRITORIES
AND BIODIVERSITY CONSERVATION.**

(room 212)

EXECUTIVES:

Skrypnyk O.A., Kopach P.I.

Institute for Nature Management Problems & Ecology of the NAS of Ukraine

REPORTS:

V.N. Romanenko

**CREATING A LANDSCAPE RESERVATIONS OF LOCAL SIGNIFICANCE "GRUSHEVKA" UNDER
THE EARTH IN THE NIKOPOL MANGANESE ORE BASIN**

A.M. Haydin

ENVIRONMENTAL PROBLEMS IN THE REGION OF SULFUR AND POTASH SALT MINING

A.A. Yushin

**PROSPECTS OF DEVELOPMENT ALTERNATIVE MINERAL-MATERIAL BASE OF
KRYVORIZHZHYA**

Smetana S.M., Smetana O.M.

SUSTAINABLE MINED LANDS REHABILITATION USING LANDSCAPE BIOMIMICRY

and others reports

SECTION 3. THE PROBLEMS OF THE RIVER DNIPRO BASIN ECOSYSTEM.

(room 212)

EXECUTIVE:

Skrypnyk O.A., Institute for Nature Management Problems & Ecology of the NAS of Ukraine

REPORTS:

O.O. Skrypnyk.

**TECHNOLOGICAL IMPACT OF RESERVOIRS ON THE BASIS OF EDAPHIC FLOODPLAIN
ECOSYSTEMS AND FORECAST POSSIBLE SCENARIOS OF SECONDARY SOIL DEVELOPMENT**

V.V. Demyanov

**SOME OF THE POSSIBILITY OF DESIGN SOLUTIONSHEALTHCARE DNEIPER RIVER WITHIN
DNEPROPETROVSK**

and others reports

SECTION 4. ENVIRONMENTAL MONITORING, ENVIRONMENTAL AND TECHNOGENIC SAFETY.

(room 214)

EXECUTIVE:

Yemetz M.A., Institute for Nature Management Problems & Ecology of the NAS of Ukraine

REPORTS:

O.S. Savluk, A.V. Rudenko, M.M. Saprykina, V.V. Goncharuk.

MICROMYCETES MONITORING IN SURFACE WATER INTAKE SPRINGS CITY OF UKRAINE

P.I. Kopach, T.T. Dan'ko

GROUND LOCATION CITY POST SURVEILLANCE SYSTEM OF THE ENVIRONMENT

G.P. Andronov, I.B. Zakharova, N.M. Filimonova

**FEATURES OF ORES PROCESSING FROM THE KOVDOR DEPOSIT AND TECHNOGENIC SAFETY
OF REGION**

P.V. Khazan, O.V. Angurets, I.A. Kyrylenko

OPPORTUNITIES THE USE OF EFFICIENT RENEWABLE ENERGY BY THE INDUSTRIAL AND MUNICIPAL SECTORS ON THE EXAMPLE OF DNIPROPETROVSK REGION

P.V. Mikhelson, S.K. Khomeriki, D.G. Khomeriki

THE METODOLOGY OF CALCULATION OF SEISMIC SAFF PARAMETRES FOR INDUSTRIAL EXPLOSIONS

I.M. Kuzyk, V.M. Artamonov, A.M. Kamuz

MECHANISMS OF REDUCING DUST FORMATION FROM THE WASTE DUMPS` SURFACE USING SOLUTIONS OF SURFACE – ACTIVE SUBSTANCES

V.V. Peregudov, A.V. Romanenko, V.M. Sidor, B.F. Kucher, E.M. Nicolenko

DEVELOPMENT of PROCESS of MOVING AT WORKING off BEDS, HAVING DECLENSION ON EXTENDING

D.A. Shevchenko

ANALYSIS OF CONTROL METHODS AFTER DEVELOPMENT OF DEFORMATION PROCESSES IN NEAR SIDE ARRAYS OF MOUNTAIN BREEDS OF GLEEVATSKOGO OF QUARRY

V.Yu. Zinchenko, V.V. Falko, N.A. Yemets

THE FEATURES OF RATING OF ECOLOGICAL RISK FOR MAN HEALTH FROM GROUP OF STATIONARY SOURCES OF POLLUTION OF ATMOSPHERIC AIR

SECTION 5. ENVIRONMENTAL OUTLOOK IN THE XXI CENTURY.

(great hall of the Institute, II floor)

EXECUTIVES:

Anisimova L.B., Ilchenko N.V., Institute for Nature Management Problems & Ecology of the NAS of Ukraine

REPORTS:

A.G. Shapar, O.O. Skrypnyk.

DO WEAKNESS, CALLOUSNESS OR MISUNDERSTANDINGS DETERMINE THE FATE OF THE DNIPRO?

O.V. Angurets

DNIPRO. TIME TO THINK ABOUT THE FUTURE

V.A. Sandul

INTERSTATE DNIPRO CONVENTION AS PREREQUISITE AND TERM OF FULFILLMENT OF REQUIREMENTS WITH EU WATER FRAMEWORK DIRECTIVE AND IMPLEMENTATION OF RATIFIED INTERNATIONAL CONVENTIONS

Y. Tregub

SUSTAINABLE DEVELOPMENT AND ECO-TOURISM

**SECTION 6. THEORY AND PRACTICE OF ENVIRONMENTAL ISSUES
IN THE METALLURGICAL AND MINING INDUSTRIES.**

EXECUTIVE:

BOBYLEV V.P., *Metallurgical National Academy of Ukraine.*

The Section works in NMetA of Ukraine on the individual program

GREEN FORUM

9-10 October
(Scientific Council Hall, N 216)

Organisers:

Zelenyi Svit / Friends of the Earth Ukraine

Institute for Nature Management Problems and Ecology of the National Academy of Sciences of Ukraine

Friends of the Earth Europe

October 9

10:00 - 12:15

Section 1. Biosafety and biodiversity

Moderator Olexiy Angurets

Olexiy Angurets

Coordinator of Biosafety and Biotechnology's Monitoring Campaign, Zelenyi Svit / Friends of the Earth Ukraine

**Experience of Friends of the Earth Europe
on the campaigning for Biosafety and Biodiversity**

Hrygoriy Petyuh

senior research fellow, IBKTSB

The system of criteria for environmental impact assessment of transgenic technologies "

Yuriy Hrytsan

Professor, Chair of Dnipropetrovsk regional organisation of All-Ukrainian Environmental League Prospects for Nature Conservation in Dnipropetrovsk Oblast "

Oleg Skrypnyk

Senior research fellow, Institute of Nature Management and Ecology of the National Academy of Sciences of Ukraine
Challenges of biodiversity system development in Ukraine

Igor Khokhlov,

Director of the Clinic "Medicor"

Critical natural conditions of medical leech (*Hirudo medicinalis*) and its prospects for the medical applications

15:30 - 17:45

Section 2. Sustainable Development and Energy

Moderator Pavlo Khazan

Pavlo Khazan,

Sustainable Development and Energy Campaigner, Zelenyi Svit / Friends of the Earth Ukraine

Energy policy in the context of sustainable development. Experience of the local renewable energy projects in Ukraine.

Ike Teuling

Milieudefensie / Friends of the Earth Netherlands

Campaigner e energy and natural resources

Resistance against fracking in Dutch municipalities

David Heller,

Friends of the Earth Europe, Network Development Coordinator

European campaigns on the economical structure and energy policy.

Dmytro Pikarenya,
Dniprodzerzhinsk State Technical University, Professor
The theoretical basis of unconventional gas technologies. Ukrainian perspectives and implications of fracking.

Denis Zaslavsky,
Zelenyi Svit / Friends of the Earth Ukraine, expert
Green technologies as the way to energy efficiency.

October 10

10:00 - 12:15

Section 3. Public participation in decision-making processes

Moderator Olexiy Angurets

Olexiy Angurets,
Coordinator of Biosafety and Biotechnology's Monitoring Campaign, Zelenyi Svit / Friends of the Earth Ukraine
Challenges towards development of environmentally conscious civil society in Ukraine

Olexandr Matviyevskiy,
Zelenyi Svit / Friends of the Earth Ukraine, Local group "Oberig", lawyer, attorney
Experience of local communities in the judicial protection of environmental rights and the environment in Ukraine .

Oksana Tomchuk,
lawyer, attorney
Perspectives and development of the human rights protection in Ukraine

Andriy Shilov,
Musician, composer, teacher, expert of Zelenyi Svit / Friends of the Earth Ukraine
The interaction between citizens and law enforcement authorities in the City of Dnipropetrovsk.

Kim Shulman,
The local group of citizens, Prospect Geroyiv 30
The struggle of residential district Peremoga community against the land grabbing and illegal constructing in the city.

12:30 - 14:45

Section 4. The issue of environmental education and education

Moderator Olexander Kaporovskiy

Victor Khazan ,
International Centre for Sustainable Development ECOSTAR, President
The theoretical basis of the education system based on the sustainable development concept

Ella Tahterina, bibleist
Objectives of education for understanding world by human in the spiritual and physical aspects. Balance and harmony in the skills and abilities of perception of the world

Elena Severinovska
Biologist, Professor
Problems of education and its ecologisation on the historically new range of social development.

Sheviakov A.V.
Dnipropetrovsk National University, professor.
Ecological and aesthetical education in the context of sustainable development.

Olexander Kaporovskiy
Zelenyi Svit / Friends of the Earth Ukraine, environmental education coordinator
Experience of development of non-governmental environmental education

15:00 - 17:15

Section 5. Urban Planning and Transport

Moderator Yuriy Lozovenko

Yuriy Lozovenko ,
Zelenyi Svit / Friends of the Earth Ukraine, Youth Coordinator
Urban planning and transport policy in the context of sustainable development

Kateryna Kvasnikova,
President of the Cycling Federation of Dnipropetrovsk, Campaigner of “Velogorod”
Public Campaign “Velogorod” as the platform for the creation of environmentally-friendly transport system in Dnipropetrovsk

Maxym Soroka
Research fellow, Dnipropetrovsk National University of Railway Transport
The natural conflict of interest in the cycling promotion in the city

Olexiy Brusnitsyn ,
Public Campaign “Velogorod”, project coordinator “Velomap.info”
Presentation of the project Velomap.info

Industrial tours & excursions:

- *Northern Mining Plant, Kryvyi Rih*
- *Botanical Garden of NAS, Kryvyi Rih*
- *Plant "Interpipe Steel"*
- *Aerospace Museum. Of the National Aerospace Education Center of Ukrainian Youth named. A.M.Makarov*
- *Museum of "Memory of the Jewish people and the Holocaust in Ukraine" in Dnepropetrovsk*
- *Bike ride through the city*
- *scientific research base, Environment museum, Photo-pictures gallery "Art and Ecology" of the Institute*

CLOSING PLENARY SESSION

(4-th Day Friday, October 11, 2013, great hall, III floor)

✓ **REPORTS from THE SECTION AND THE RESULTS OF THE CONFERENCE**

✓ **ADOPTION OF THE RECOMMENDATIONS OF THE CONFERENCE**

✓ **CLOSING OF THE CONFERENCE**

ORGANIZING COMMITTEE

Institute for Nature Management Problems & Ecology of the NAS of Ukraine

49000, Dnipropetrovsk, 6 Moskovskaya street