



**Azerbaijan University of Architecture and Construction,
State Oil Company of Azerbaijan Republic
International Ecoenergy Academy
Green Economy, Energy efficiency and Environment
International Conference**

The main objective of the Conference is to discuss the global energy and environmental problems including the issues of development and use of hydrocarbon resources and preventing the related environmental and health impact. In addition, the Conference will discuss and disseminate the results of latest researches on achieving highest energy efficiency in all economic sectors through application of modern energy saving technologies and renewable energy systems



21-22 October 2014, Baku

AGENDA

Green Economy, Energy Efficiency and Environmental Protection International Conference

21-22 October 2014, Hilton Baku Hotel, Baku, Azerbaijan

Organizers

Azerbaijan University of Architecture and Construction, State Oil Company of the Azerbaijan Republic and International Ecoenergy Academy

Organizations supporting the conference

Ministry of Ecology and Natural Resources of the Azerbaijan Republic, State Agency for Alternative and Renewable Energy Sources

Co-chairs of the conference

G. Mammadova, Azerbaijan University of Architecture and Construction, Rector, Professor, people's deputy
Kh. Yusif-zade, State Oil Company of the Azerbaijan Republic, First Vice President, Full Member of the ANAS

R. Huseynzade, State Oil Company of the Azerbaijan Republic, Vice President for Ecology

F. Aliyev, Azerbaijan University of Architecture and Construction, Engineering Ecology Chair, Head of Chair, Professor

Azerbaijan Organizing Committee

A. Sharifov, Azerbaijan University of Architecture and Construction, Pro-rector for research, Professor

R. Mammadov, Institute of Geography of ANAS, Director, Full Member of the ANAS

N. Guliyev, Ministry of Ecology and Natural Resources of the Azerbaijan Republic, Deputy Minister, Corresponding Member of ANAS

M. Ramazanov, Baku State University, NanoCenter, Director

T. Panakhov, Azerbaijan University of Architecture and Construction, Chair of Physics, Head of Chair

Kh. Mansimova, Ministry of Energy of the Azerbaijan Republic, Department of Alternative and Renewable Energy Sources, Head of Department

J. Melikov, State Agency for Alternative and Renewable Energy Sources, Deputy Chairman

A. Mammadov, Institute of Earth Science and Agrochemistry of ANAS, Director

F. Askerov, BP AGT region, Regional Director for Regulatory Compliance and Environmental Management

Z. Musayev, Azerbaijan University of Architecture and Construction, WE and EC

S Faculty, Dean

International Organizing Committee

N. Abdullayeva, Azerbaijan University of Architecture and Construction, Pro-rector for International Relations, Professor

N. Gritsenko, Energy Saving International AS, Oslo, Norway

L. Di Palma, Sapienza University, Head of Chair, Professor, Nano project manager, Rome, Italy

N. Petford, Northampton University, Director, Professor, London, Great Britain

L. Good, Manager of the Inogate project for Sustainable Energy development

G. Grob, International Clean Energy Consortium, Switzerland

Y. Tabunshikov, NP "AVOK", President, Moscow, Russia

A. Dobrea, "Louis Berger" US-French company, regional leading expert

F. Aliyev, International Ecoenergy Academy, Vice President

21 October 2014, Hilton Baku Hotel

09:30 – 10:00 Registration

10:00 – 11:30 Opening

G. Mammadova, Azerbaijan University of Architecture and Construction, Rector, Professor, people's deputy
Kh. Yusif-zade, State Oil Company of the Azerbaijan Republic, First Vice President, Full Member of the ANAS

R. Huseynzade, State Oil Company of the Azerbaijan Republic, Vice President for Ecology
Representative of the Ministry of Education of the Azerbaijan Republic
Representative of the Ministry of Ecology and Natural Resources of the Azerbaijan Republic

11:30 – 13:00 Plenary session

11:30 – 12:00 G. Mammadov. *Green economy and spatially accessible society*, State Land and Cartography Committee of Azerbaijan Republic, Chairman, Full Member of the ANAS

12:00 – 13:00 F. Aliyev. *Green economy in architecture and construction, nanotechnology in environmental protection*, Azerbaijan University of Architecture and Construction, Engineering Ecology Chair, Head of Chair, Professor

13:00 – 14:00 Lunch break

14:00 – 16:00 Plenary session

14:00 – 14:30 On the collaborative project of the Azerbaijan University of Architecture and Construction and Northampton University

14:30 – 15:00 N. Gritsenko, *Energy efficiency and energy audit*, Energy Saving International AS, Oslo, Norway

15:00 – 15:30 F. Askerov. 20th anniversary of operations in the Caspian Sea, BP AGT region, Regional Director for Regulatory Compliance and Environmental Management

15:30 – 16:00 V.G. Kulikov, *Prospects and problems of application of nanotechnology in oil and gas industry*, IntroVision Digital Petrophysics, Moscow, Russia

16:00 – 16:30 Coffee break

16:30 – 18:30 Plenary session



16:30 – 17:00 A.V. Kanayev, T.M. Panahov, Azerbaijan University of Architecture and Construction, Nord University, Paris, France
17:00 – 17:30 L. Di Palma, F. Aliyev. *Curriculum reform and the modernization of ecology engineering in Azerbaijan on nanotechnology (Econano)*, Sapienza University, Head of Chair, Professor, Nano project manager, Rome, Italy; International Ecoenergy Academy
17:30 – 18:00 Head Nicholas, Waste management in EU and UK, Northampton University, London, UK
18:00 – 18:30 Closure: questions and answers
19:00 Social program

Section I. Waste and its effects on the environment

Section moderators:

Z. Musayev, Azerbaijan University of Architecture and Construction, WE and ECS Faculty, Dean
A. Mammadov, Institute of Earth Science and Agrochemistry of ANAS, Director

Academic secretary of the section:

S. Gasimova, Azerbaijan University of Architecture and Construction, Engineering Ecology Chair, senior teacher

22 October 2014, Azerbaijan University of Architecture and Construction

10:00 – 14:00

1. Environmental safety assessment of the Lankaran region soils
S.Z. Mammadova, Institute of Earth Science and Agrochemistry of ANAS
2. Environmental assessment of the Mil plain soils based on aerospace data
R.M. Heydarova, Institute of Geography of ANAS
3. *The impact of urban environment and artificial lighting on human health*
L.Kh. Mammadova, Azerbaijan University of Architecture and Construction
4. About implementation of the project of rehabilitation of lands of the former Neftchala iodine-bromine production plant
A.T.Huseynov¹, F.M.Hajizadeh², V.I.Huseynov², Ecoland² Stock Company, ²- Ministry of Emergency Situation



5. The cleaning of the oil contaminated soils
A.Kangarli, A.Malikmammadov, Azerbaijan University of Architecture and Construction
6. Application of integrated biological purification devices in the sewerage system of the Sumgait Technologies Park
N.I. Aliyev, I.Z. Aliyev, Azerbaijan University of Architecture and Construction, Sumgait Technologies Park
7. Environmental advantages of plastic tubes manufactured in the Sumgait Technologies Park
I.Z. Aliyev, R.G. Agajanov, Sumgait Technologies Park
8. *Impact of industrial waste (mainly heavy metals) on the environment*
R.A. Sadigov, Azerbaijan University of Architecture and Construction
9. *Specifics of disposal and treatment of municipal surface waters in the development of separate sewer systems*
F.S. Guliyev, Azerbaijan University of Architecture and Construction
10. Agrochemical assessment of the use of vermicompost under ornamental plants (*Dieffenbachia amoena*)
G.M. Mammadov, A.F. Mahbub Khomami, Institute of Earth Science and Agrochemistry of ANAS
11. Effects of the relief on the formation of soil structures on the Absheron peninsula
V.H. Hasanov, Institute of Earth Science and Agrochemistry of ANAS
12. Efficiency of using organic pollutants as fertilizer in different soil and climatic conditions.
F.Kh. Isayeva, S.T. Talibova, A.F. Akhmedova, Institute of Earth Science and Agrochemistry of ANAS
13. Efficiency of using "Absheron" compost produced by bioconversion from waste typical for the Absheron peninsula as a fertilizer for vegetable plants
A.A. Aliyeva, Institute of Earth Science and Agrochemistry of ANAS
14. Reuse of industrial waste and recycled products
U.A. Mammadov, M.S. Alosmanov, A.I. Yagubov, A.B. Mammadov, Academician M. Nagiyev Institute of Catalysis and Inorganic Chemistry, Institute of Geophysics and Geology of ANAS
15. Heavy metals contamination of the soil of Baku
A.B. Akhundova, Y.N. Nasirov, Institute of Earth Science and Agrochemistry of ANAS
16. New methods of waste neutralization and utilization
M.S. Alosmanov, S.B. Gasimova, N.M. Binnatova, A.I. Rustamova, Institute of Geophysics and Geology of ANAS, Azerbaijan University of Architecture and Construction
17. On the environmental safety of industrial and consumer waste in the Baku Metro
G.D. Abbasov, Baku Metro CJSC
18. Control and management of discharge and spread of pollutants
Ch.M. Shabanova, A.A. Mammadov, F.A. Huseynova, Academician M. Nagiyev Institute of Catalysis and Inorganic Chemistry
19. Study of the emulsifying properties of a number of nitrogen surfaceactive substances
Z.M. Agayeva, A.I. Yagubova, R.F. Ramazanova, Y.Y. Jabbarov, Academician M. Nagiyev Institute of Catalysis and Inorganic Chemistry
20. Environmental assessment of cultivated soils containing mutual microelements
T.Y. Gasimzade, Agriculture Department of ANAS
21. Determining the quantity of microorganisms contained in oil-polluted gray-brown soils of Absheron
A.Kh. Ibrahimov, R.R. Akhmedova, Sumgait State University

Section II. Nanotechnology in engineering ecology

Section moderators:

- M. Ramazanov, Baku State University, NanoCenter, Director
L. Di Palma, Sapienza University, Head of Department, Professor, Nano project manager, Rome, Italy

Academic secretary of the section:

- L. Mammadova, Azerbaijan University of Architecture and Construction, Engineering Ecology Chair, Assoc Professor

22 October 2014, Azerbaijan University of Architecture and Construction

10:00 – 14:00

1. A.V. Kanayev, T.M. Panahov, Azerbaijan University of Architecture and Construction, Nord University, Paris, France

2. *Interrelation between ecology and nanotechnology*

T.M. Panahov, A. Bayramov, Azerbaijan University of Architecture and Construction, Military Academy of the Defense Ministry

3. *Nanotechnology in the State Oil Company of the Azerbaijan Republic*

V. Shamilov, State Oil Company of the Azerbaijan Republic, Nanotechnology Center

4. *Sodium-cycle water softening without circulation*

Kh.G. Feyziyev, G.Kh. Huseynova, Azerbaijan University of Architecture and Construction

Section III. Energy efficiency and renewable energy sources

Section moderators:

Y. Tabunshikov, NP "AVOK", President, Moscow, Russia

N. Mammadov, Azerbaijan University of Architecture and Construction, Chair of Heating and Gas Equipment and Ventilation, Head of Chair

J. Melikov, State Agency for Alternative and Renewable Energy Sources, Deputy Chairman

Academic secretary of the section:

S. Akperova, Azerbaijan University of Architecture and Construction, Chair of Heating and Gas Equipment and Ventilation, Assoc. Professor

22 October 2014, Azerbaijan University of Architecture and Construction

10:00 – 14:00

1. Norway-Azerbaijan project: High energy efficient buildings in Norway

N. Gritsenko, Energy Saving International AS, Oslo, Norway

2. Compressed air battery wind pump

F.G. Aliyev, O.M. Salamov, Kh.K. Amrakhov, Azerbaijan University of Architecture and Construction, Institute of Radiation Problems of ANAS

3. Energy efficiency of buildings: ESIB (INOGATE) experience in Azerbaijan

J.T. Efendiyev, independent expert (Azerbaijan)

4. Sustainable and Green school

N.S. Ismayilova, SPARE international project manager in Azerbaijan

5. Studying the ways to improve energy efficiency of modern buildings

N.Y. Mammadov, Y.Z. Hajiyev, Y.Sh. Aliyev, Azerbaijan University of Architecture and Construction

6. Energy efficiency measures in the operation of modern heating equipment systems

R.J. Abdullayev, "Azeristiliktejhizat" OJSC, "Heating Systems and Equipment Design and Estimate Scientific-Research Center" LLC

7. Comparative analysis of environmentally friendly and efficient water treatment methods for heating equipment systems

G.A. Aleskerov, R.T. Ismayilov, Azerbaijan University of Architecture and Construction

9. The use of regenerative energy in the Absheron conditions

M.F. Jalilov, O.B. Aliyev, B.O. Ali, Azerbaijan University of Architecture and Construction, "Bukhar Muhendislik" LLC

10. Energy efficiency of buildings and green roofs

G.Y. Petrov, D.G. Mikhaylidi, A.N. Zakharchuk, N.M. Hashimov, "TECHNONICOL" Corporation, Moscow, Russia

11. The role of heat insulation in energy efficiency of buildings

K. Borozdin, "Rockwool" Corporation, Moscow, Russia

12. The role of renewable energy source in energy efficiency

Sh.N. Movsumov, International Ecoenergy Academy

13. Assessment of thermal stability of different layers of external walls under the impact of solar radiation

A.M. Nasirov, S.M. Akperova, Azerbaijan University of Architecture and Construction

14. Energy efficiency and renewable energy sources

Kh.M. Masimova, Ministry of Energy of the Azerbaijan Republic

15. Prospects for the use of renewable energy sources in the Azerbaijan Republic

S.Kh. Ismayilov, Sumgait State University

16. Energy accumulation in plant substances of biogeocenosis and analysis of the efficient use of solar energy

A.P. Gerayzade, N.A. Mammadov, S.A. Kocharli, Ch.G. Gulaliyev, Institute of Earth Science and Agrochemistry of ANAS, Baku State University, Institute of Geography of ANAS

Section IV. Environmental condition of the Caspian Sea and the Kura-Aras River Basin

Section moderators:

R. Mammadov, Institute of Geography of ANAS, Director, Full Member of the ANAS

Academic secretary of the section:

R. Hasanov, Azerbaijan University of Architecture and Construction, Engineering Ecology Chair, Assoc. Professor

22 October 2014, Azerbaijan University of Architecture and Construction

10:00 – 14:00

1. Assessment of the water use and environmental conditions in the Kura River basin

Y.V. Gahramanli, Azerbaijan University of Architecture and Construction

2. Have we been able to use the Mingachevir reservoir in its design capacity?

F.Kh. Hasanov, Azerbaijan University of Architecture and Construction

3. Determining the standards of maximum permissible discharge (MPD) based on the standard figures of wastewater discharge into rivers

F.Sh. Akhmedov, "Azersu" OJSC, "Sukanal" SRDI

4. Current environmental state of water reserves in Azerbaijan and determining the fields of use of thermal water sources

R.A. Sadigov, A.A. Mursalov, Azerbaijan University of Architecture and Construction

5. Ecology of the rivers of the Greater Caucasus and their use in the water supply system

R.N. Hasanov, A.M. Azizov, Azerbaijan University of Architecture and Construction

6. Main priorities of international cooperation in the field of efficient use and protection of the water reserve of the Kura River basin

E.S. Ganbarov, Azerbaijan "Reclamation and Water Economy" OJSC, Scientific Research Institute of Water Problems

7. The impact of the Takhtakorpu-Jeyranbatan Canal on the environment protection and assessment of its environmental parameters

E.S. Ganbarov, Azerbaijan University of Architecture and Construction

8. Analysis of the technical characteristics of the Velvelechay-Takhtakorpu Canal

F.M. Ismayilov, Azerbaijan University of Architecture and Construction

9. Study of the impact of climatic factors on the formation of the minimum flow in the rivers of the northeastern slopes of the Greater Caucasus

E.S. Ganbarov, Kh.F. Fetdayev, M.M. Bekirova, Azerbaijan University of Architecture and Construction, Institute of Ecology of ANAA

10. Determining the perennial fluctuations of the minimum flow by statistical methods

A.Sh. Fetdayeva, F.T. Gasimova, A.M. Guliyeva, T.T. Memishova, Institute of Ecology of ANAA

11. Assessment of soil washout intensity on the northeastern slopes of the Greater Caucasus (Case study: Gudyalchay River basin)

Kh.F. Fetdayev, Institute of Ecology of ANAA

12. Environmental problems of Salyan plain in the area of influence of the Caspian Sea

I.Kh. Garayev, Azerbaijan "Reclamation and Water Economy" OJSC, Hydrotechnics and Reclamation RPA

13. On the ecohydrological condition of the Lower Kura bottomland lakes

Kh.G. Aslanov, Y.S. Ganbarov, N.N. Akhmedzade, Azerbaijan University of Architecture and Construction, Institute of Erosion and Irrigation of ANAS

14. Assessment of the impact of the sea level fluctuation on the regime of rivers, canals and ground waters

A.K. Alimov, A.S. Amiraslanova, Azerbaijan "Reclamation and Water Economy" OJSC, Hydrotechnics and Reclamation RPA

15. Reclamative and environmental condition of the irrigated lands based on the groundwater depth and salt load of the Kura-Aras Lowland

M.Y. Iskenderov, Azerbaijan "Reclamation and Water Economy" OJSC, Hydrotechnics and Reclamation RPA

16. Reclamative-environmental zoning of the lands unsuitable for seawater irrigation

S.A. Eminov, Azerbaijan "Reclamation and Water Economy" OJSC, Hydrotechnics and Reclamation RPA

17. Environmental protection for collector and drainage waters irrigation of agricultural plants

I.N. Shirinov, Y.M. Musayeva, Azerbaijan "Reclamation and Water Economy" OJSC, Hydrotechnics and Reclamation RPA

18. The role of the Ministry of Emergency Situations in the environmental policy related to the Caspian Sea and other water basins of the Azerbaijan Republic

M.J. Ismayilov, Ministry of Emergency Situations of the Azerbaijan Republic

19. Environmental-reclamative state of the degradation-prone lands of Shirvan plain and improvement measures

A.I. Hajiyev, A.A. Khalilova, Azerbaijan University of Architecture and Construction

20. Administration of the river water reserves of Azerbaijan in the context of climate change

R.N. Makhmudov, R.Kh. Abbasov, Ministry of Ecology and Natural Resources of the Azerbaijan Republic, Scientific-Research Institute of Hydrometeorology, Khazar University

21. Agroecological characteristics of the basic soil types of the Kura-Aras Lowland

K.G. Nuriyeva, N.A. Sultanova, Institute of Earth Science and Agrochemistry of ANAS

22. Environmental assessment of the Kura-Aras Lowland soils

M.M. Yusifova, K.A. Gafarbeyli, Institute of Earth Science and Agrochemistry of ANAS

23. Water purification and protection for the Caspian Sea and Kura and Aras rivers

F.M. Ismayilov, Azerbaijan University of Architecture and Construction



