

BAKU STATE UNIVERSITY



1<sup>st</sup> INTERNATIONAL SCIENTIFIC CONFERENCE

**SUSTAINABLE FUTURE:  
INTEGRATED DEVELOPMENT OF  
EARTH SCIENCES AND ECOLOGY**

**PROGRAMME**

December 23 – 24, 2025

**BAKU, AZERBAIJAN**



## Organizing committee

### Co-chairmans:

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Dean of Faculty of Geography, Baku State University (BSU), Azerbaijan

Mamoy Mansurov

Dean of Faculty of Geology, BSU, Azerbaijan

Akif Aghbabali

Dean of Faculty of Ecology and Soil Science, BSU, Azerbaijan

### Members:

Firuzza Sultan-zadeh

Director of the Republican Center for Child and Youth Development of the Ministry of Science and Education of the Republic of Azerbaijan, Associate professor of the Department of Bioecology, BSU, Azerbaijan

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Associate professor of the Department of Soil Science and Real Estate Cadastre, BSU, Azerbaijan

Anar Nuriyev

Teacher of the Department of Hydrometeorology, BSU, Azerbaijan

## Program committee

### Chairman

Vasif Babazadeh      Head of the Department of Minerals, BSU, Azerbaijan

### Members:

Cuneyt Erenoglu	Rector of the Çanakkale Onsekiz Mart University, Türkiye
Gurban Yetirmishli	General Director of Republican Seismology Survey Center under Azerbaijan National Academy of Sciences
Fakhraddin Gadirov	General Director of the Institute of Oil and Gas of the Ministry of Science and Education of the Republic of Azerbaijan
Alexander Tvalchrelidze	Head of Department of Caucasus Mineral Raw Materials Institute of the Republic of Georgia
Talat Kangarli	Head of Dynamic Geology Department of the Institute of Geology and Geophysics of the Ministry of Science and Education of the Republic of Azerbaijan
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Saleh Nagiyev	Head of the Department of Azerbaijan Geography and Geography Teaching methods, BSU, Azerbaijan

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Bahram Aliyev	Professor of the Azerbaijan University of Architecture and Construction, Azerbaijan
Shovgisafa Goychaysky	Professor of the Department of Geographical Ecology, BSU, Azerbaijan
Luca Di Palma	Professor of the Department of the Materials and Environment of the La Sapienza University, Italy
Mustafa Kumral	Professor of the Department of the Geological Engineering of the Istanbul Technical University, Türkiye
Lev Eppelbaum	Professor of the Department of the Geophysics of the Tel-Aviv University, Israel
Ekrem Tushat	Professor of the Department of Cartography Engineering, Konya Technical University, Türkiye
Veacheslav Mazare	Associate professor of the Department of Soil Science of Agricultural Sciences and Veterinary Medicine, Banats University, Romania
Ilhomjon Musayev	Associate professor of Tashkent Institute of Irrigation and Mechanization Engineers, Uzbekistan

**December 23, Tuesday**

## **OPENING CEREMONY**

**Main Academic Building, 3<sup>rd</sup> Floor, Main Hall**

<b>09:00-10:00</b>	Registration
<b>10:00-11:30</b>	Opening Ceremony/ Group Photo
<b>11:30-12:00</b>	Coffee Break / Poster session

## **PLENARY SESSION**

**Chairperson: Sevinj Hajiyeva (Azerbaijan)**

**Academic Building III, 1<sup>st</sup> Floor, Round Hall**

<b>12:00 – 12:20</b>	<b>High-sulfidation to skarn transition: XRD-based mineralogical characterization of the Gilar Polymetallic System, Gedabek Contract Area</b>  <b>Arzuman Rizvanoghlu</b> <i>Azerbaijan International Mining Company, Azerbaijan</i>
<b>12:20 – 12:40</b>	<b>Importance of establishing a near real-time regional ionosphere model</b>  <b>Muzaffer Kahveci</b> <i>Konya Technical University, Türkiye</i>
<b>12:40 – 13:00</b>	<b>Why soil health is important for maintaining resilient ecosystems and sustainable development</b>  <b>Karl-Heinz Feger</b> <i>TUD Dresden University of Technology, Germany</i>
<b>13:00 – 14:00</b>	<b>Lunch</b>

December 23, Tuesday

## KEYNOTE SPEAKER'S SESSION

**Chairpersons:** Chingiz Ismayilov (Azerbaijan)  
Gaukhar Bishimbayeva (Kazakhstan)

**Academic Building III, 1<sup>st</sup> Floor, Round Hall**

<b>14:00 – 14:15</b>	<b>Reuse of drainage flow for local irrigation</b>  <b>Aytan Sariyeva</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>14:15 – 14:30</b>	<b>Lithogeochemical evolution and metallogenic framework of the Gedabek high-sulfidation Au-Cu-Ag system</b>  <b>Sabuhi Mammadov</b> <i>Azerbaijan International Mining Company, Azerbaijan</i>
<b>14:30 – 14:45</b>	<b>Improving the quality of drilling-blasting works in the open method development of the IV and VI areas of the Gedabek gold-copper deposit</b>  <b>Vahid Hamzayev</b> <i>Azerbaijan State Oil and Industry University, Azerbaijan</i>
<b>14:45 – 15:00</b>	<b>Geographical analysis of development oil industry in Sudan using the experience of Azerbaijan</b>  <b>Chingiz Ismayilov</b> <i>Baku State University, Azerbaijan</i>
<b>15:00 – 15:30</b>	<b>Coffee Break</b>

15:30 – 15:45	<p><b>Investigation of the effect of global geoid model results at different patch directions and grid intervals in geoid determination using the DFHRS approach; the case of Konya</b></p> <p><b>Ekrem Tusat</b>  <i>Konya Technical University, Türkiye</i></p>
15:45 – 16:00	<p><b>Infrastructure of interactive provision of cosmogeospatial data: new perspectives for geoinformation systems</b></p> <p><b>Ilgar Musayev</b>  <i>Institute of Military Scientific Research of the National Defense University, Azerbaijan</i></p>
16:00 – 16:15	<p><b>Assessment of soil pollution in the west Kazakhstan region by toxic chemical substances as a result of industrial activity</b></p> <p><b>Tursynkul Bazarbayeva</b>  <i>Al-Farabi Kazakh National University, Kazakhstan</i></p>
16:15 – 16:30	<p><b>Monitoring shoreline variability and coastal ecosystem changes in the southwestern Caspian region</b></p> <p><b>Turkan Mamishova</b>  <i>Baku State University, Azerbaijan</i></p>
16:30 – 16:45	<p><b>Remote sensing assessment of urban heat islands and their environmental impacts (on the example of Shirvan city)</b></p> <p><b>Shahnaz Amanova</b>  <i>Baku State University, Azerbaijan</i></p>
16:45 – 17:00	<p><b>Conservation and propagation of <i>Pyrus</i> L. species in the greater Caucasus: integrating biodiversity strategies with “Green Economy” principles</b></p> <p><b>Sabina Jafarzadeh</b>  <i>Karabakh University, Azerbaijan</i></p>

December 24, Wednesday

## PARALLEL SESSIONS

**Session 1-1: Green chemistry, green education, green economy and sustainable development**

**Chairpersons: Sevinj Hajiyeva (Azerbaijan)  
Tursynkul Bazarbayeva (Kazakhstan)**

**Academic Building II, 10<sup>th</sup> Floor, Student Development Centre**

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|----------------------|--|
| <b>10:00 – 10:10</b> | <b>Assesment of the state green plantings in the antropogenic environment condition (on the example of the central park of Aksu city)</b><br><br><b>Zarina Sergazinova<sup>1</sup>, Nazymgul Akimbekova<sup>1</sup>, Tunzala Babayeva<sup>2</sup>, Vusala Agayeva<sup>3</sup></b><br><i><sup>1</sup>Toraighyrov University, Kazakhstan</i><br><i><sup>2</sup>Sumgayit State University, Azerbaijan</i><br><i><sup>3</sup>Baku State University, Azerbaijan</i> |
| <b>10:10 – 10:20</b> | <b>Azerbaijan's emerging green hydrogen policy: strategic measures, capacity scenarios, and future outlook</b><br><br><b>Parvana Safarova, Elman Shirinov</b><br><i>Mingachevir State University, Azerbaijan</i>   |
| <b>10:20 – 10:30</b> | <b>Catalyst-free synthesis of dichlordiazadienes from aryl hydrazones: mechanistic features, green chemistry advantages, and alternative approaches</b><br><br><b>Peri Huseynova</b><br><i>Nakhchivan State University, Azerbaijan</i>   |
| <b>10:30 – 10:40</b> | <b>Green and blue transformation policy in sustainable development</b><br><br><b>Yusif Bayramov</b><br><i>Baku State University, Azerbaijan</i>  |

10:40 – 10:50	<p><b>Safeguarding wild <i>Pyrus</i> L. genetic resources in the Greater Caucasus: implications for biodiversity conservation and sustainable use running title</b></p> <p><b>Sabina Jafarzadeh<sup>1</sup>, Elman Iskender<sup>2</sup>, Bahar Mammadova<sup>3</sup></b>  <sup>1</sup><i>Karabakh University, Azerbaijan</i>  <sup>2</sup><i>Institute of Microbiology, Azerbaijan</i>  <sup>3</sup><i>Institute of Ecology of the National Aerospace Agency, Azerbaijan</i></p>
10:50 – 11:00	<p><b>Development of a sorption-spectroscopic method for the determination of Co(II) ions</b></p> <p><b>Aziza Matekeyeva<sup>1</sup>, Ruzmetov Uchkun<sup>1</sup>, Tarana Aliyeva<sup>2</sup>, Naila Jafarova<sup>2</sup></b>  <sup>1</sup><i>Tashkent State Technical University named after Islam Karimov, Uzbekistan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
11:00 – 11:10	<p><b>Chemical composition indicators of potato tuber based on dry matter content</b></p> <p><b>Nihat Karimov<sup>1</sup>, Zaur Aghamaliyev<sup>2</sup></b>  <sup>1</sup><i>Azerbaijan State Oil and Industry University, Azerbaijan</i>  <sup>2</sup><i>Institute of Petrochemical Processes named after acad. Y.Mammadaliyev, Azerbaijan</i></p>
11:10 – 11:20	<p><b>Green education and lifelong learning: pathways to sustainable development</b></p> <p><b>Nigar Maharramova</b>  <i>Mingachevir State University, Azerbaijan</i></p>
11:20 – 11:30	<p><b>Green education and sustainable learning</b></p> <p><b>Aytaj Aliyeva, Tamilla Karimova</b>  <i>Odlar Yurdu University, Azerbaijan</i></p>
11:30 – 12:00	<b>Coffee Break</b>

<b>12:00 – 12:10</b>	<b>Green finance: sustainable investments and green bonds</b>  <b>Aytan Nadirova</b> <i>Mingachevir State University, Azerbaijan</i>
<b>12:10 – 12:20</b>	<b>The role of digital technologies and green economy in fostering strong and inclusive communities: assessing the challenges ahead for sustainable growth</b>  <b>Gulnaz Ismayilova</b> <i>Mingachevir State University, Azerbaijan</i>
<b>12:20 – 12:30</b>	<b>Impact of green innovation potential on sustainable economic development</b>  <b>Aytakin Afandiyeva, Gulnar Gurbanova</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>12:30 – 12:40</b>	<b>Implementing the circular economy model: strategies for minimizing waste and increasing resource efficiency</b>  <b>Kanan Abbasov</b> <i>Mingachevir State University, Azerbaijan</i>
<b>12:40 – 12:50</b>	<b>Innovative water-saving technology – application of hydrogels</b>  <b>Subhana Shahmaliyeva</b> <i>Water and Amelioration Scientific Research Institute, Azerbaijan</i>
<b>12:50 – 13:00</b>	<b>Long-term tangible assets as the basis of green investments: accounting perspective</b>  <b>Hafiza Hajiyeva, Firuza Mammadova</b> <i>Azerbaijan State Agricultural University, Azerbaijan</i>
<b>13:00 – 14:00</b>	<b>Lunch</b>

<b>14:00 – 14:10</b>	<b>The foundations and directions of modern ecolinguistics: language as an ecological system</b>  <b>Gulnara Gurbanova</b> <i>Mingachevir State University, Azerbaijan</i>
<b>14:10 – 14:20</b>	<b>Study of Cd (II) ion sorption and development of a method for its detection</b>  <b>Mekhrinigor Mukhammadiyeva<sup>1</sup>, Maftuna Qarshiboyeva<sup>1</sup>, Uchkun Ruzmetov<sup>1</sup>, Tarana Aliyeva<sup>2</sup>, Naila Jafarova<sup>2</sup></b> <sup>1</sup> <i>National University of Uzbekistan, Uzbekistan</i> <sup>2</sup> <i>Baku State University, Azerbaijan</i>
<b>14:20 – 14:30</b>	<b>Potential of using green energy in Azerbaijan</b>  <b>Mahluga Yusifova, Shams Alizade</b> <i>Baku State University, Azerbaijan</i>
<b>14:30 – 14:40</b>	<b>Production of composite phase change material (PCM) from waste LDPE and pomegranate peel derived materials</b>  <b>Atakan Ural, Mahmut Ozturk, Zerrin Gunkaya, Aysun Ozkan, Mufide Banar</b> <i>Eskişehir Technical University, Türkiye</i>
<b>14:40 – 14:50</b>	<b>Reconcentration of some metal ions using cloud point extraction and ultrasonic nebulizer inductively coupled plasma optical emission spectrometry (ICP-OES)</b>  <b>Ali Huseyinli, Sevinj Hajiyeva</b> <i>Baku State University, Azerbaijan</i>
<b>14:50 – 15:00</b>	<b>Sustainability in emerging universities: lessons from physics, health, and environmental integration in Pakistan's Thal region</b>  <b>Saeed Ahmad</b> <i>Thal University Bhakkar, Pakistan</i>

**15:00 – 15:10 Sustainable recovery of critical elements from secondary industrial sources**

**Gaukhar Bishimbayeva<sup>1</sup>, Rustem Sharipov<sup>1</sup>,  
Karlygash Bulenova<sup>2</sup>, Zaken Iskakov<sup>2</sup>,  
Aidana Myrzabekova<sup>1</sup>, Saule Nurmakova<sup>1</sup>,  
Magzum Sadykov<sup>1,3</sup>, Amantay Dalbanbay<sup>1</sup>,  
Yernur Omarbekov<sup>2</sup>**

*<sup>1</sup>Kazakh National Research Technical University,  
Kazakhstan*

*<sup>2</sup>Institute of High Technologies LLP, Kazakhstan*

*<sup>3</sup>“Angstrom” LPP, Kazakhstan*

**15:20 – 15:30 The emerald pathway: advanced green economy models and their strategic role in shaping global sustainable development**

**Javidan Hazizade**

*Azerbaijan State University of Economics Zagatala  
Branch, Azerbaijan*

**December 24, Wednesday**

## **PARALLEL SESSIONS**

**Session 1-2: The impact of climate change on the environment**

**Chairpersons: Mahluga Yusifova (Azerbaijan)  
Bayan Tusupova (Kazakhstan)**

**Academic Building II, Room № 603**

**10:00 – 10:10 Ecological and geographical foundations of environmental protection**

**Shovgi Goychayski**

*Baku State University, Azerbaijan*

<b>10:10 – 10:20</b>	<b>Assessment of the impact of industrial and manufacturing sectors on population settlement in city of Ganja</b>  <b>Khanlar Mustafayev</b> <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i>
<b>10:20 – 10:30</b>	<b>Comparative analysis of waste management systems based on countries' levels of economic development</b>  <b>Gunel Piraliyeva</b> <i>State Agency of Azerbaijan Automobile Roads, Azerbaijan</i>
<b>10:30 – 10:40</b>	<b>Dietary exposure to naturally occurring radionuclides and toxic heavy metals in essential staple foods</b>  <b>Nargiz Sultanova, Rahil Bagirov, Jala Mahmudova, Aysha Abbasli</b> <i>Azerbaijan State Oil and Industry University, Azerbaijan</i>
<b>10:40 – 10:50</b>	<b>A brief analysis of the ecological situation of the Republic of Azerbaijan</b>  <b>Mehman Mehbaliev</b> <i>Baku State University, Azerbaijan</i>
<b>10:50 – 11:00</b>	<b>Ecological problems caused by the mining industry and their investigation using GIS technology</b>  <b>Magsad Gojamanov, İlhama Garibova</b> <i>Baku State University, Azerbaijan</i>
<b>11:00 – 11:10</b>	<b>Farm resilience and management models in the context of global climate change</b>  <b>Gunay Abbasova, Seymur Mestaliyev</b> <i>Azerbaijan State Agricultural University, Azerbaijan</i>

11:10 – 11:20	<p><b>From air to fuel: economic feasibility of CO<sub>2</sub>-TO-DME VIA heat-integrated processes</b></p> <p><b>Ali Orujzada<sup>1</sup>, Mirza Aslanli<sup>2</sup>, Ramazan Mammadov<sup>1</sup></b>  <sup>1</sup><i>Odlar Yurdu University, Azerbaijan</i>  <sup>2</sup><i>Independent Researcher, Azerbaijan</i></p>
11:20 – 11:30	<p><b>Industrial waste impact on the ecosystem along the Caspian coast: a case study of Baku bay</b></p> <p><b>Turkan Shefaqetli</b>  <i>Baku State University, Azerbaijan</i></p>
11:30 – 12:00	<b>Coffee Break</b>
12:00 – 12:10	<p><b>Influence of reaction time and nitrogen doping on carbon quantum dots synthesized from biomass waste</b></p> <p><b>Mohammad Qadder Ahmadi, Zerrin Gunkaya, Aysun Ozkan, Mufide Banar</b>  <i>Eskişehir Technical University, Türkiye</i></p>
12:10 – 12:20	<p><b>Investigation of solar-powered desalination systems for reuse of water resources in the oil industry</b></p> <p><b>Ali Jafarov</b>  <i>National Aerospace Agency, Azerbaijan</i></p>
12:20 – 12:30	<p><b>Main factors affecting the condition of the classified forests of Faya, Mali</b></p> <p><b>Adama Togola</b>  <i>University Delta-C de Bamako, Mali</i></p>
12:30 – 12:40	<p><b>Major environmental problems of protected areas in the Jalal-Abad region of Kyrgyzstan</b></p> <p><b>Tamara Torobekova, Aizhan Toktomatova</b>  <i>Kyrgyz National University named after J.Balasagyna, Kyrgyzstan</i></p>

12:40 – 12:50	<p><b>Pomegranate waste derived bio-oil production using two different thermal methods</b></p> <p><b>Pikakhanım Ahlimanova</b>, Mahmut Ozturk, Zerrin Gunkaya, Aysun Ozkan, Mufide Banar <i>Eskişehir Technical University, Türkiye</i></p>
12:50 – 13:00	<p><b>Hydrogen storage powered water generation as an innovative solution for sustainable energy and environmental development</b></p> <p><b>Tri Julia Wulandari</b> <i>Erciyes University, Türkiye</i></p>
13:00 – 14:00	<b>Lunch</b>
14:00 – 14:10	<p><b>The ecological environment at the crossroads of Europe and Asia</b></p> <p><b>Leyli Abdullayeva</b> <i>Academy of Public Administration under the President of the Republic of Azerbaijan, Azerbaijan</i></p>
14:10 – 14:20	<p><b>The impact of climate variability on the development dynamics of species belonging to the genus <i>Camellia</i> L.</b></p> <p><b>Shabnam Ashrafova, Gulay Mustafayeva, Sevinj Yusifova</b> <i>“Dendrology Garden” Public Legal Entity, Azerbaijan</i></p>
14:20 – 14:30	<p><b>Ways to reduce environmental problems in the sustainable development of the transport system in Azerbaijan</b></p> <p><b>Sahila Allahverdiyeva</b> <i>Baku State University, Azerbaijan</i></p>

**December 24, Wednesday**

## **PARALLEL SESSIONS**

### **Session 1-3: Fertility, agroecological problems and rational use of land**

**Chairpersons: Shahnaz Amanova (Azerbaijan)  
Gulzhanat Mukanova (Kazakhstan)**

**Academic Building II, Room № 709**

**10:00 – 10:10    Anthropogenic impact on soil quality and practical solutions for mitigating agroecological risks**

**Rufana Zahidzada**

*Mingachevir State University, Azerbaijan*

**10:10 – 10:20    Transformation of micromycete biota in urban ecosystems and its role as an ecological indicator**

**Gumru Balakhanova**

*Azerbaijan State Pedagogical University, Azerbaijan*

**10:20 – 10:30    Developing the Fertilizer Potential of Biochar Produced from the Sewage Sludge**

**Amil Ibadov**

*Hacettepe University, Türkiye*

**10:30 – 10:40    Ecological assessment of technogenic pollution of the soil cover in Almaty city**

**Gulzanat Mukanova, Tursynkul Bazarbayeva,  
Zulfiya Tukenova, Bayan Tussupova,  
Batirgeld Shimshikov**

*Al-Farabi Kazakh National University, Kazakhstan*

**10:40 – 10:50    Ecological risks of insecticides**

**Turan Allahverdieva-Asgarova**

*Azerbaijan State Agricultural University, Azerbaijan*

<b>10:50 – 11:00</b>	<b>Feasibility of reclaiming salinized soils in azerbaijan using plant species</b>  <b>Umud Gasimov</b> <i>Water and Amelioration Scientific Research Institute, Azerbaijan</i>
<b>11:00 – 11:10</b>	<b>Humus status of soils in Uzbekistan and its variation by soil type and soil-formation</b>  <b>Tulkin Ortikov<sup>1</sup>, Usmonbek Shodmanov<sup>2</sup>, Bobur Shoniyozov<sup>3</sup>, Dilrabo Erkayeva<sup>4</sup></b> <sup>1</sup> <i>Samarkand State University, Uzbekistan</i> <sup>2</sup> <i>Fergana State University, Uzbekistan</i> <sup>3</sup> <i>Samarkand Institute of Agroinnovation and Research, Uzbekistan</i> <sup>4</sup> <i>Samarkand Agrochemical Analytical Center, Uzbekistan</i>
<b>11:10 – 11:20</b>	<b>Impact of irrigation erosion on tea plant productivity in pseudopodzolated yellow soils</b>  <b>Ulker Akbarova</b> <i>Lankaran State University, Azerbaijan</i>
<b>11:20 – 11:30</b>	<b>Impact of the hydrographic network of the Nakhchivan Autonomous Republic on the development of agrocenoses</b>  <b>Leyla Ibrahimova</b> <i>Nakhchivan State University, Azerbaijan</i>
<b>11:30 – 12:00</b>	<b>Coffee Break</b>
<b>12:00 – 12:10</b>	<b>Impact of viral infection on photosynthetic performance and chloroplast stress signaling in higher plants</b>  <b>Nargiz Sultanova, Laman Dadashova, Alsu Dadashova, Narmin Dadashova</b> <i>Azerbaijan State Oil and Industry University, Azerbaijan</i>

<b>12:10 – 12:20</b>	<p><b>Investigation of the distribution of saline soils in the Gobustan–Absheron physical-geographical region using remote sensing</b></p> <p><b>Gunel Hasanova</b>  <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i></p>
<b>12:20 – 12:30</b>	<p><b>The classification and fertility of south-west Romanian soils</b></p> <p><b>Veacheslav Mazare, Romina Mazare, Casiana Mihut, Anișoara Duma-Copcea, Aurelia Mihut</b>  <i>University of Life Science “King Mihai I” from Timișoara, Romania</i></p>
<b>12:30 – 12:40</b>	<p><b>Mechanisms for preserving the biological diversity of planet Earth and prospects for ensuring sustainable development of the existential chain of being</b></p> <p><b>Tarana Yusibova, Vusala Mustafayeva, Aysel Bayramova, Gulmira Mammadova</b>  <i>Mingachevir State University, Azerbaijan</i></p>
<b>12:40 – 12:50</b>	<p><b>Regional characteristics and acrophysical importance of the granulometric composition of soils</b></p> <p><b>Gunel Musayeva</b>  <i>Research Institute of Crop Husbandry, Azerbaijan</i></p>
<b>12:50 – 13:00</b>	<p><b>Fundamentals of the eco-ethical concept of Azerbaijan</b></p> <p><b>Garib Mammadov, Akif Aghbabali, Gunel Heydarzada</b>  <i>Baku State University, Azerbaijan</i></p>

<b>13:00 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 14:10</b>	<b>Research of applicability of limit values for polycyclic aromatic hydrocarbons (pahs) in soil</b>  <b>Ali Huseyinli</b> <i>Baku State University, Azerbaijan</i>
<b>14:10 – 14:20</b>	<b>Secondary metabolites and their biological activities from endophytic bacteria <i>Bacillus halotolerans</i> XJB-35 associated with <i>Baccharoides anthelmintica</i></b>  <b>Nigora Rustamova, Jakhongir Movlanov</b> <i>University of Geological Sciences, Uzbekistan</i>
<b>14:20 – 14:30</b>	<b>Soil pollution and productivity losses in agricultural ecosystems</b>  <b>Sevda Jafarova</b> <i>Ganja State University, Azerbaijan</i>
<b>14:30 – 14:40</b>	<b>Sustainable land development and project performance analysis in the Mugan irrigated zone</b>  <b>Arzu Hasanova</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>14:40 – 14:50</b>	<b>The impact of the natural and geographical environment on agriculture in the Nakhchivan economic region</b>  <b>Ismat Hasanov</b> <i>Nakhchivan State University, Azerbaijan</i>

**December 24, Wednesday**

## **PARALLEL SESSIONS**

### **Session 2-1: Minerals, petrology, geochemistry and mineralogy**

**Chairpersons: Nazim Imamverdiyev (Azerbaijan)  
Jakhongir Movlanov (Uzbekistan)**

**Academic Building II, Room № 418**

<b>10:00 – 10:10</b>	<b>Careful approach to the assessment and development of mineral deposits</b>  <b>Nizami Jafarov<sup>1</sup>, Tarlan Jafarov<sup>2</sup></b> <i><sup>1</sup>«Asbestos Geological Exploration Enterprise» LLP, Kazakhstan</i> <i><sup>2</sup>Kazakh-British Technical University, Kazakhstan</i>
<b>10:10 – 10:20</b>	<b>Geological, geophysical, and geochemical foundations of the formation of the Goshgardag ore-magmatic system (Lesser Caucasus, Azerbaijan)</b>  <b>Mamoy Mansurov</b> <i>Baku State University, Azerbaijan</i>
<b>10:20 – 10:30</b>	<b>Evaluation of the Factors and Characteristics Controlling the Formation of the Aytym Au Mineralization (Bukantau Mountains, Uzbekistan)</b>  <b>Lochinbek Abdullayev<sup>1</sup>, Jakhongir Movlanov<sup>2</sup></b> <i><sup>1</sup>Institute of Geology and Geophysics, Uzbekistan</i> <i><sup>2</sup>University of Geological Sciences, Uzbekistan</i>
<b>10:30 – 10:40</b>	<b>On new minerals discovered in the Upper Cretaceous volcanic rocks of the Vandam zone</b>  <b>Rauf Karimov, Solmaz Velizadeh, Azer Amirov, Tellar Gadirova, Elnur Musayev</b> <i>Institute of Geology and Geophysics, Azerbaijan</i>

<b>10:40 – 10:50</b>	<p><b>Genetic modeling of the interaction between primary and placer gold-bearing systems in the Garabagh ore field</b></p> <p><b>Tarana Tahmazova</b>  <i>Baku State University, Azerbaijan</i></p>
<b>10:50 – 11:00</b>	<p><b>The role of geodynamic conditions in the formation of picrites of the Talysh zone</b></p> <p><b>Farrukh Sariyev</b>  <i>Institute of Geology and Geophysics, Azerbaijan</i></p>
<b>11:00 – 11:10</b>	<p><b>Prospects for exploration and forecasting of non-ferrous metal deposits in the Agdam anticlinorium (Lesser Caucasus, Azerbaijan)</b></p> <p><b>Mamoy Mansurov, Bahadir Galandarov, Ruslan Shamiyev, Aygun Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>
<b>11:10 – 11:20</b>	<p><b>Application of aerospace methods in studying the localization conditions of pyrite formation mineralization in the Gadabay ore region</b></p> <p><b>Tarana Mammadova, Ruslan Shamiyev, Aygun Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>
<b>11:20 – 11:30</b>	<p><b>Application of waste-free technology in the open-pit mining of the Gadabay copper-gold deposit</b></p> <p><b>Anvar Hajiyeu</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
<b>11:30 – 12:00</b>	<b>Coffee Break</b>
<b>12:00 – 12:10</b>	<p><b>Cationic and anionic ordering in tetrahedral and octahedral sheets of the phlogopite nanostructure of talysh alkaline ultrabasic complex (Azerbaijan)</b></p> <p><b>Afet Shirinova</b>  <i>Baku State University, Azerbaijan</i></p>

12:10 – 12:20	<p><b>Modern approaches to assessing tungsten raw material potential in Uzbekistan: databases, statistical metallogenic analysis, and prognostic criteria</b></p> <p><b>Jakhongir Movlanov<sup>1</sup>, Farrukh Rakhmatullayev<sup>2</sup>, Mirzabobir Mirzaahmedov<sup>1</sup></b>  <sup>1</sup><i>University of Geological Sciences, Uzbekistan</i>  <sup>2</sup><i>Institute of Mineral Resources, Uzbekistan</i></p>
12:20 – 12:30	<p><b>Deep-Seated Cu–Zn–Au Mineralization and Underground Development Strategy of the Zafar Deposit, Gedabek Contract Area</b></p> <p><b>Javid Ibrahimov, Anar Valiyev, Mehman Talibov, Shakir Gadimov, Hikmat Rustamli, Aydın Bayramov, Sabuhi Mammadov</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
12:30 – 12:40	<p><b>Clarification of the crystal structure of xonotlite and crystal chemistry of Ca- and TR- silicates with condensed Si–O radicals</b></p> <p><b>Afet Shirinova</b>  <i>Baku State University, Azerbaijan</i></p>
12:40 – 12:50	<p><b>Comprehensive study of the geochemical and mineralogical characteristics of the Daghkasan and Chovdar gold deposits</b></p> <p><b>Mirhuseyn Agarahimov, Jalal Asgarov</b>  <i>Institute of Geology and Geophysics, Azerbaijan</i></p>
12:50 – 13:00	<p><b>Geological and structural conditions of the standard gold deposits of the Auminzatau-Beltau ore district</b></p> <p><b>Akram Goipov, Jakhongir Movlanov</b>  <i>University of Geological Sciences, Uzbekistan</i></p>
13:00 – 14:00	<b>Lunch</b>

14:00 – 14:10	<p><b>Geochemistry of the Trachybasalt–Trachyandesibasalt–fonolite formation rocks</b></p> <p><b>Murad Musazadeh</b>  <i>Institute of Geology and Geophysics, Azerbaijan</i></p>
14:10 – 14:20	<p><b>Gold content of the Bashgishlag barite-polymetallic deposit</b></p> <p><b>Aygun Ismaylova</b>  <i>Baku State University, Azerbaijan</i></p>
14:20 – 14:30	<p><b>Clarification of the crystal structure of vesuvian and crystal chemistry of TO<sub>4</sub>-containing large-cation oxides</b></p> <p><b>Afet Shirinova</b>  <i>Baku State University, Azerbaijan</i></p>
14:30 – 14:40	<p><b>X-ray and thermographic studies of Azerbaijani heulandites</b></p> <p><b>Ulviyya Yuzbashova, Karim Rahimov</b>  <i>Baku State University, Azerbaijan</i></p>
14:40 – 14:50	<p><b>Mineralogical and geochemical peculiarities of the Gudurdagh copper-pyrrhotite occurrence</b></p> <p><b>Aygun Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>
14:50 – 15:00	<p><b>Mineralogical and granulometric criteria for the diagnosis and prognosis of placer deposits (using the Zod deposit, Azerbaijan as an example)</b></p> <p><b>Tarana Tahmazova</b>  <i>Baku State University, Azerbaijan</i></p>
15:00 – 15:10	<p><b>Spatial relationship of dykes with gold mineralization</b></p> <p><b>Zhala Mardanova, Bahram Suleymanov, Humay Azizova</b>  <i>Baku State University, Azerbaijan</i></p>

<b>15:10 – 15:20</b>	<b>Features of the distribution of main ore components in the three-dimensional space of the Filizchay deposit (Greater Caucasus)</b>  <b>Nigar Sattarzade</b> <i>Baku State University, Azerbaijan</i>
<b>15:20 – 15:30</b>	<b>Geological structure of kaolin deposits of the northeastern part of the Lesser Caucasus (on the example of the Kotandagh deposit)</b>  <b>Aygun Ismayilova</b> <i>Baku State University, Azerbaijan</i>
<b>15:30 – 16:00</b>	<b>Coffee Break</b>
<b>16:00 – 16:10</b>	<b>Stages and Improvement Opportunities of Land Reclamation at Gedabey Gold-Copper Mine</b>  <b>Jamila Akbarova</b> <i>Azerbaijan International Mining Company, Azerbaijan</i>
<b>16:10 – 16:20</b>	<b>Implementation of rational use of hydrocarbon resources through geological-mathematical models</b>  <b>Seymur Teymurlu</b> <i>Dashkasan Iron Ore, Azerbaijan</i>
<b>16:20 – 16:30</b>	<b>Types of ores of the Kasmali occurrences (Balakan-Zagatala ore district)</b>  <b>Aygun Mammadova</b> <i>Baku State University, Azerbaijan</i>
<b>16:30 – 16:40</b>	<b>Typomorphic features of ore minerals of porphyry copper deposits in the northeastern Lesser Caucasus</b>  <b>Nuraddin Abbasov, Ilgar Guliyev, Adnan Aliyev</b> <i>Baku State University, Azerbaijan</i>
<b>16:40 – 16:50</b>	<b>The role of advanced techniques in the finalization of hydrocarbon resource development</b>  <b>Seymur Abulfat</b> <i>Dashkasan Iron Ore, Azerbaijan</i>

16:50 – 17:00	<p>Temperature regime of deposit formation based on homogenization of inclusions and isotopic analysis of sulfide sulfides</p> <p><b>Zhala Mardanova</b>  <i>Baku State University, Azerbaijan</i></p>
17:00 – 17:10	<p>Geochemical characteristics of the “Damirli” porphyry copper deposit</p> <p><b>Nahid Mammadov, Afet Shirinova, Aygun Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>
17:10 – 17:20	<p>The role of ore-controlling factors in the placement of gold mineralization in the Agduzdag ore field</p> <p><b>Tarana Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>

**December 24, Wednesday**

## **PARALLEL SESSIONS**

**Session 2-2: Hydrogeology, melioration, seismology and geological-geophysical research**

**Chairpersons: Bahadir Galandarov (Azerbaijan)  
Avaz Mammadov (Azerbaijan)**

**Academic Building II, Room № 219**

10:00 – 10:10	<p>Tectono-magmatic and metallogenic evolution of the Ordubad Porphyry-Cluster, Nakhchivan, Azerbaijan</p> <p><b>Anar Valiyev, Rustam Abdullayev, Babak Mammadaliyev, Shakir Gadimov, Javid Ibrahimov, Sabuhi Mammadov</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
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<b>10:10 – 10:20</b>	<b>Lithofacial features lower pliocene sediments South Caspian Basin</b>  <b>Farrukh Hasanov</b> <i>Baku State University, Azerbaijan</i>
<b>10:20 – 10:30</b>	<b>Integrated management of water resources and prevention of water scarcity in Azerbaijan: challenges and sustainable solutions</b>  <b>Sevda Valiyeva</b> <i>Azerbaijan University of Architecture and Construction Baku, Azerbaijan</i>
<b>10:30 – 10:40</b>	<b>Assessment of the hydrogeological conditions of reclaimed areas</b>  <b>Bahadir Qalandarov, Alakbar Mirzayev, Gunay Huseynova</b> <i>Baku State University, Azerbaijan</i>
<b>10:40 – 10:50</b>	<b>Dynamics of groundwater in the Shirvan plain and its impact on the meliorative status of soils</b>  <b>Aslan Hajiyeu, Rahima Shakharova</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>10:50 – 11:00</b>	<b>Distribution peculiarities of heavy metals (Cr, Co, Ni, Cu, Zn, Pb) in mountain-forest brown soils of the mid-mountain landscape of the Velvelachay- Gusarchay rivers</b>  <b>Ilgar Guliyev</b> <i>Baku State University, Azerbaijan</i>
<b>11:00 – 11:10</b>	<b>Groundwater reserves, resources, and their categorization according to the level of exploration</b>  <b>Chingiz Gulammammadov, Rehile Mehtiyeva, Sevda Orujova</b> <i>Water and Irrigation Scientific Research Institute, Azerbaijan</i>

11:10 – 11:20	<p><b>Azerbaijan's water supply amid climate variability: challenges and solutions</b></p> <p><b>Sevda Valiyeva</b>  <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i></p>
11:20 – 11:30	<p><b>Lithology and reservoir properties of the productive series sediments in the Pirallahi Island Area</b></p> <p><b>Gizqayit Abbasova<sup>1</sup>, Mahammad Orucov<sup>1</sup>, Sevinj Farajova<sup>2</sup>, Sabira Naghizade<sup>1</sup></b>  <sup>1</sup><i>Azerbaijan State Oil and Industry University, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
11:30 – 12:00	<b>Coffee Break</b>
12:00 – 12:10	<p><b>Prospects for using Karabakh's thermal waters as a renewable energy source</b></p> <p><b>Allahverdi Tagiyev<sup>1</sup>, Turana Tagizada<sup>2</sup></b>  <sup>1</sup><i>Azerbaijan State Oil and Industry University, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
12:10 – 12:20	<p><b>Lithostratigraphy of the productive series sediments of the South Caspian</b></p> <p><b>Rubaba Rustamova</b>  <i>Baku State University, Azerbaijan</i></p>
12:20 – 12:30	<p><b>Technological and ecological aspects of mining engineering exploitation of the Gadabay Copper-Gold Deposit</b></p> <p><b>Khayal Guliyev</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
12:30 – 12:40	<p><b>Removal of Heavy Metal Contaminants from Industrial Wastewater Using Modified Baker's Yeast</b></p> <p><b>Murad Imamverdizada, Rima Guliyeva</b>  <i>Baku Higher Oil School, Azerbaijan</i></p>

<b>12:40 – 12:50</b>	<b>Geoecological assessment of ecosystems on the southern slope of the Greater Caucasus based on biogeochemical characteristics</b>  <b>Turkan Amiraslanova</b> <i>Baku State University, Azerbaijan</i>
<b>12:50 – 13:00</b>	<b>Investigation of the ameliorative condition of the Karabakh lowland</b>  <b>Sevda Valiyeva, Saniya Bayramova</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>13:00 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 14:10</b>	<b>Technogenic impact of the Velvelechai-Takhtakorpu Water Canal on engineering-geological conditions</b>  <b>Turana Sadıqova<sup>1</sup>, Safarbey Alakbarli<sup>2</sup></b> <sup>1</sup> <i>Baku State University, Azerbaijan</i> <sup>2</sup> <i>Institute of Geology and Geophysics, Azerbaijan</i>
<b>14:10 – 14:20</b>	<b>Sr-Nd isotopic-geochemical characteristics and origin of the upper pliocene-quaternary postcollision volcanism in the Lesser Caucasus (Azerbaijan)</b>  <b>Nazim Imamverdiyev<sup>1</sup>, Anar Valiyev<sup>2</sup></b> <sup>1</sup> <i>Baku State University, Azerbaijan</i> <sup>2</sup> <i>Azerbaijan International Mining Company, Azerbaijan</i>
<b>14:20 – 14:30</b>	<b>The impact of climate change on Azerbaijan's water basins</b>  <b>Sevda Valiyeva, Aybaniz Hajiyeve</b> <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>
<b>14:30 – 14:40</b>	<b>Features of local gravity-magnetic anomalies above oil deposits in the Middle Kura Depression</b>  <b>Vagif Gadirov</b> <i>Baku State University, Azerbaijan</i>

14:40 – 14:50	<p><b>A Robust ML–Mw conversion and machine-learning based seismic characterization in Southeastern Anatolia</b></p> <p><b>Mirhasan Hasanli</b>, Gülten Polat <i>Yeditepe University, Türkiye</i></p>
14:50 – 15:00	<p><b>Assessment of geothermal energy of Pliocene complex in the Absheron peninsula, Azerbaijan</b></p> <p><b>Aygun Mammadova</b> <i>Baku State University, Azerbaijan</i></p>
15:00 – 15:10	<p><b>A comprehensive hybrid framework integrating mathematical signal enhancement and deep neural networks for advanced seismic waveform classification</b></p> <p><b>Milana Karimova<sup>1</sup></b>, Aydin Bayramov<sup>2</sup>, <b>Nadir Aslanov<sup>3</sup></b> <sup>1</sup><i>Azerbaijan-French University, Azerbaijan</i> <sup>2</sup><i>Azerbaijan International Mining Company, Azerbaijan</i> <sup>3</sup><i>Dashkasan Iron Ore LLC, Azerbaijan</i></p>
15:10 – 15:20	<p><b>Geodynamic and ore-forming features of the demirli deposit within the Lök-Qarabağ metallogenic belt</b></p> <p><b>Anar Valiyev, Stephen Westhead, Vusal Amirkhanov, Atabay Nushravanov, Eldar Maharramov, Tural Sariyev</b> <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
15:20 – 15:30	<p><b>The role of geodynamic conditions in the formation of picrites of the Talysh zone</b></p> <p><b>Farrukh Sariyev</b> <i>Institute of Geology and Geophysics, Azerbaijan</i></p>
15:30 – 16:00	<b>Coffee Break</b>

16:00 – 16:10	<p><b>Horizontal movements of the earth's crust in the Lesser Caucasus region based on paleomagnetic data from Jurassic formations (Azerbaijan)</b></p> <p><b>Zohrab Novruzov, Tahmina Garayeva,</b>  <b>Arzu Bagirova, Narmin Alimammadzadeh</b>  <i>Institute of Geology and Geophysics, Azerbaijan</i></p>
16:10 – 16:20	<p><b>Integration of geological, geophysical, geochemical and aerospace methods in metallogenic studies</b></p> <p><b>Zaki Valiyev<sup>1</sup>, Adilakhanum Babayeva<sup>2</sup>,</b>  <b>Tarana Mammadova<sup>2</sup>, Nigar Alizada<sup>1</sup></b>  <sup>1</sup><i>Institute of Geology and Geophysics, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
16:20 – 16:30	<p><b>Application of aerospace methods in studying the localization conditions of pyrite formation mineralization in the Gadabay ore region</b></p> <p><b>Tarana Mammadova, Ruslan Shamiyev,</b>  <b>Aygun Mammadova</b>  <i>Baku State University, Azerbaijan</i></p>
16:30 – 16:40	<p><b>Petrographic characteristics and reservoir properties of PS–RS rocks</b></p> <p><b>Afshan Huseynova</b>  <i>Baku State University, Azerbaijan</i></p>
16:40 – 16:50	<p><b>Modern research methods used in the exploration of buried ore bodies</b></p> <p><b>Fuad Huseynov, Elfag Mammadov</b>  <i>AzerGold CJSC, Azerbaijan</i></p>
16:50 – 17:00	<p><b>Rock magnetism of the Aghjakend depression of the Kazakh-Agburun subzone (Azerbaijan)</b></p> <p><b>Tahmina Garayeva<sup>1</sup>, Zohrab Novruzov<sup>1</sup>,</b>  <b>Zabita Mehdiyeva<sup>1</sup>, Adilekhanim Babayeva<sup>2</sup>,</b>  <b>Seidshah Mehreliyev<sup>1</sup></b>  <sup>1</sup><i>Institute of Geology and Geophysics, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>

<b>17:00 – 17:10</b>	<b>The role of advanced techniques in the finalization of hydrocarbon resource development</b>  <b>Seymur Teymurlu</b> <i>Dashkasan Iron Ore, Azerbaijan</i>
<b>17:10 – 17:20</b>	<b>Search for oil and gas traps associated with buried volcanic formations of the Middle Kura Depression of Azerbaijan using gravity and magnetic data</b>  <b>Vagif Gadirov</b> <i>Baku State University, Azerbaijan</i>

**December 24, Wednesday**

## **PARALLEL SESSIONS**

### **Session 3-1: Climate change, water resources and landscape transformation**

**Chairpersons: Irada Aliyeva (Azerbaijan)**  
**Muzaffer Kahveci (Türkiye)**

**Academic Building II, Room № 303**

<b>10:00 – 10:10</b>	<b>Estimation of sedimentation flow: a case study for Alijanchay river in Azerbaijan</b>  <b>Farda Imanov<sup>1</sup>, Elchin Aliyev<sup>2</sup>, Irada Aliyeva<sup>1</sup>, Anar Nuriyev<sup>1</sup></b> <sup>1</sup> <i>Baku State University, Azerbaijan</i> <sup>2</sup> <i>Central Laboratory of the Azerbaijan State Water Resources Agency, Azerbaijan</i>
<b>10:10 – 10:20</b>	<b>Modern environmental conditions and efficient use of land and water resources in the Talas region of Kyrgyzstan</b>  <b>Aizat Akimova</b> <i>Kyrgyz National University named after J.Balasagyna, Kyrgyzstan</i>

<b>10:20 – 10:30</b>	<p><b>Distribution of solar radiation and utilization potential of sunshine hours in the territory of the Eastern Zangezur region</b></p> <p><b>Sheker Mammadova<sup>1</sup>, Faig Abdurahmanov<sup>1</sup>, Nasiba Hajiyeva<sup>2</sup>, Hayat Shekiliyeva<sup>1</sup></b>  <sup>1</sup><i>Baku State University, Azerbaijan</i>  <sup>2</sup><i>Ganja State University, Azerbaijan</i></p>
<b>10:30 – 10:40</b>	<p><b>Comprehensive assessment of the impact of global climate change on farm organization and sustainable development</b></p> <p><b>Ayten Sariyeva<sup>1</sup>, Bahadir Galandarov<sup>2</sup>, Ilqar Guliyev<sup>2</sup>, Alakbar Mirzayev<sup>2</sup></b>  <sup>1</sup><i>Azerbaijan University of Architecture and Construction, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
<b>10:40 – 10:50</b>	<p><b>Integrating green education in universities: a case study of youth-led sustainability initiatives at Baku State University</b></p> <p><b>Asiman Ilyasov, Mirhuseyn Taghiyev</b>  <i>Baku State University, Azerbaijan</i></p>
<b>10:50 – 11:00</b>	<p><b>Problems of sustainable development of the Guba-Khachmaz economic region and efficient management of waste generated in the area</b></p> <p><b>Nariman Pashayev<sup>1</sup>, Yusif Bayramov<sup>2</sup></b>  <sup>1</sup><i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>
<b>11:00 – 11:10</b>	<p><b>Modern requirements for improving the quality monitoring system for water sources and water supply in Azerbaijan</b></p> <p><b>Hamlet Fatdayev<sup>1</sup>, Sadaqat Musayeva<sup>2</sup></b>  <sup>1</sup><i>Water and Amelioration Scientific Research Institute, Azerbaijan</i>  <sup>2</sup><i>Azerbaijan University of Languages, Azerbaijan</i></p>

11:10 – 11:20	<p><b>Main geoeological factors of geomorphological systems of the Azerbaijan part of the Greater Caucasus</b></p> <p><b>Mehman Mehbaliyev<sup>1</sup>, Ilham Mardanov<sup>2</sup></b>  <sup>1</sup><i>Baku State University, Azerbaijan</i>  <sup>2</sup><i>Sumgayit State University, Azerbaijan</i></p>
11:20 – 11:30	<p><b>Environmental condition and rational use of Water Resources in the Eastern Part of the Chui region of Kyrgyzstan</b></p> <p><b>Asel Mambetalieva, Ulan Zhamynchiev, Malika Saparova</b>  <i>Kyrgyz National University named after J.Balasagyna, Kyrgyzstan</i></p>
11:30 – 12:00	<b>Coffee Break</b>
12:00 – 12:10	<p><b>Assessment of new water sources for sustainable water supply in the absence of hydrological data (The Case of Shusha City)</b></p> <p><b>Mirzakhan Mansimov<sup>1</sup>, Matanat Musayeva<sup>2</sup>, Sevil Guliyeva<sup>3</sup>, Aytan Guliyeva<sup>4</sup></b>  <sup>1</sup><i>"İqlim Ltd" LLC Research and consulting company, Azerbaijan</i>  <sup>2</sup><i>Sumgayit State University, Azerbaijan</i>  <sup>3</sup><i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i>  <sup>4</sup><i>Baku State University, Azerbaijan</i></p>
12:10 – 12:20	<p><b>Assessment of environmental impacts in mountain geosystems using gis technologies</b></p> <p><b>Latifa Kazimova</b>  <i>Azerbaijan State Oil and Industry University, Azerbaijan</i></p>
12:20 – 12:30	<p><b>Integration of digital technologies in geography education: requirements of the new curriculum and teacher practices</b></p> <p><b>Sahil Galandarov, Li Ping, Aytan Baghirova</b>  <i>Shaanxi Normal University, China</i></p>

<b>12:30 – 12:40</b>	<p><b>Developing a green campus framework: integrating technology and behavioral strategies for sustainable higher education</b></p> <p><b>Fatma Aliyeva, Mahsati Aliyeva</b>  <i>Mingachevir State University, Azerbaijan</i></p>
<b>12:40 – 12:50</b>	<p><b>Comprehensive assessment of the impact of natural hazards on road infrastructure and management strategies in the Shaki–Zagatala economic region</b></p> <p><b>Yelmar Mammadov</b>  <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i></p>
<b>12:50 – 13:00</b>	<p><b>The influence of natural and anthropogenic factors on the formation of landscape complexes in the Kura depression</b></p> <p><b>Laman Hasanaliyeva</b>  <i>Baku State University, Azerbaijan</i></p>
<b>13:00 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 14:10</b>	<p><b>Sustainability of water management systems and risk modelling in the Kura-Araz lowland</b></p> <p><b>Sabina Maharramova</b>  <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i></p>
<b>14:10 – 14:20</b>	<p><b>Research in the field of transformation of natural landscapes of mountain territories</b></p> <p><b>Nazrin Huseynli</b>  <i>Lankaran State University, Azerbaijan</i></p>
<b>14:20 – 14:30</b>	<p><b>Assessment of the impact of global climate change on the flow dynamics of the Kura river basin</b></p> <p><b>Zakir Ramazanli</b>  <i>Scientific Research Institute of Water and Melioration, Azerbaijan</i></p>

<b>14:30 – 14:40</b>	<b>Assessment of solar energy potential in the Sheki-Zagatala zone</b>  <b>Shabnam Islamova<sup>1</sup>, Natavan Veliyeva<sup>2</sup>, Gulgun Israfilova<sup>2</sup></b> <sup>1</sup> <i>Baku State University, Azerbaijan</i> <sup>2</sup> <i>Mingachevir State University, Azerbaijan</i>
<b>14:40 – 14:50</b>	<b>Analyzing the academic and professional effects of physics and engineering education</b>  <b>Gunel Baxshiyeva<sup>1</sup>, Yegana Bakirova<sup>2</sup></b> <sup>1</sup> <i>Mingachevir State University, Azerbaijan</i> <sup>2</sup> <i>Baku Istanbul Lyceum, Azerbaijan</i>
<b>14:50 – 15:00</b>	<b>Application potential of water-saving irrigation technologies and prospects under Azerbaijani conditions</b>  <b>Aslan Hajiyev, Tunzala Rzayeva</b> <i>Azerbaijan University of Architecture and Engineering, Azerbaijan</i>
<b>15:00 – 15:10</b>	<b>Alternative energy sources' economic potential: in the Context of Azerbaijan's new energy strategy</b>  <b>Nurana Abbasova-Zeynalova</b> <i>Mingachevir State University, Azerbaijan</i>
<b>15:10 – 15:20</b>	<b>The impact of global climate change on the environment and sustainable development</b>  <b>Samiyya Babazadeh</b> <i>Ministry of Ecology and Natural Resources "AZE LAB MMC", Azerbaijan</i>
<b>15:20 – 15:30</b>	<b>Assessment of the development of hazardous landslide processes along the Pirgulu–Damirchi highway in the Shamakhi district</b>  <b>Rashad Khalilov</b> <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i>

<b>15:30 – 16:00</b>	<b>Coffee Break</b>
<b>16:00 – 16:10</b>	<b>The relationship between climate change and global warming</b>  <b>Maya Zeynalova</b> <i>Baku State University, Azerbaijan</i>
<b>16:10 – 16:20</b>	<b>Water supply based on renewable energy: solar desalination and high-efficiency sprinkler irrigation</b>  <b>Ravan Jafarli</b> <i>Baku State University, Azerbaijan</i>

**December 24, Wednesday**

### **PARALLEL SESSIONS**

**Session 3-2: Creation of geospatial data infrastructure, geographic information systems, problems of urbanization and tourism**

**Chairpersons: Chingiz Ismayilov (Azerbaijan)**  
**Ekrem Tuşat (Türkiye)**

**Academic Building II, Room № 307**

**10:00 – 10:10** **Assessment of ecological risk in Gubadli and Zangilan districts based on digital elevation model analysis and hydrological modeling in a gis environment**

**Tofiq Suleymanov<sup>1</sup>, Khosiyat Ismatova<sup>2</sup>,  
**Salima Jafarli<sup>1</sup>****

<sup>1</sup>*National Aerospace Agency, Azerbaijan*

<sup>2</sup>*National Aviation Academy, Azerbaijan*

**10:10 – 10:20** **Geographic analysis of the development of**

	<p><b>digitalization, cybercrime and cybersecurity</b></p> <p><b>Chingiz Ismayilov</b>  <i>Baku State University, Azerbaijan</i></p>
<b>10:20 – 10:30</b>	<p><b>Investigation of the accuracy of kriging methods in temprature data modelling: a case study in Konya, Karaman, Aksaray and Nigde region</b></p> <p><b>Edmond Jonuzi<sup>1</sup>, Emre Ayso<sup>2</sup>, Ekrem Tuşat<sup>3</sup>, Muzaffer Kahveci<sup>3</sup>, Hüseyin Zahit Selvi<sup>1</sup></b>  <sup>1</sup><i>Necmettin Erbakan University, Türkiye</i>  <sup>2</sup><i>Niğde Ömer Halisdemir University, Türkiye</i>  <sup>3</sup><i>Konya Technical University, Türkiye</i></p>
<b>10:30 – 10:40</b>	<p><b>Assessment of the impact of imaging geometry and surface optical properties on methane emission quantification from Sentinel-2 data: libRadtran-based simulation study</b></p> <p><b>German Krauklit<sup>1</sup>, Kamala Aghayeva<sup>2</sup></b>  <sup>1</sup><i>National Aerospace Agency, Azerbaijan</i>  <sup>2</sup><i>Azerbaijan State Oil and Industry University, Azerbaijan</i></p>
<b>10:40 – 10:50</b>	<p><b>Geographical approach in urban ecologyand sustainable studies</b></p> <p><b>Arife Karadağ</b>  <i>İzmir Katip Çelebi University, Türkiye</i></p>
<b>10:50 – 11:00</b>	<p><b>On the issue of the political geography of the city of Baku</b></p> <p><b>Aydin Ibrahimov<sup>1</sup>, Seyali Mustafayeva<sup>2</sup></b>  <sup>1</sup><i>Baku State University, Azerbaijan</i>  <sup>2</sup><i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i></p>
<b>11:00 – 11:10</b>	<p><b>The travels of explorers and the Nobels to Azerbaijan</b></p> <p><b>Chingiz Abdullayev</b>  <i>Baku Slavic University, Azerbaijan</i></p>

<b>11:10 – 11:20</b>	<b>Cartographic illustration of energy sources</b>  <b>Abdusali Suyunov<sup>1</sup>, Shukhrat Suyunov<sup>1</sup>,  Kamolot Khakimova<sup>2</sup>, Saidakbar Khamzayev<sup>1</sup>,  Abdusaid Abdusalomov<sup>1</sup>,  Muhammad Shodmonkulov<sup>1</sup></b> <i><sup>1</sup>Samarkand State University of Architecture and  Construction, Uzbekistan</i> <i><sup>2</sup>Fergana State University of Technology, Uzbekistan</i>
<b>11:20 – 11:30</b>	<b>High-resolution remote sensing unmasks qanats in  Gobustan</b>  <b>Olga Khabarova<sup>1</sup>, Lev Eppelbaum<sup>2</sup></b> <i><sup>1</sup>University of Luxembourg, Luxembourg</i> <i><sup>2</sup>Tel Aviv University, Israel</i>
<b>11:30 – 12:00</b>	<b>Coffee Break</b>
<b>12:00 – 12:10</b>	<b>Base stations for differential GPS</b>  <b>Ilkhomjon Musaev, Utkir Islomov</b> <i>Tashkent Institute of Irrigation and Agricultural  Mechanization Engineers, Uzbekistan</i>
<b>12:10 – 12:20</b>	<b>Development of ecological tourism in Kyrgyzstan</b>  <b>Raushan Osmonbekova, Aizhan Osmonbekova</b> <i>Kyrgyz National University named after J.Balasagyna,  Kyrgyzstan</i>
<b>12:20 – 12:30</b>	<b>Accuracy analysis of geodetics measurement  schemes for relative deformations</b>  <b>Magsad Gojamanov<sup>1</sup>, Safail Verdiyev<sup>2</sup></b> <i><sup>1</sup>Baku State University, Azerbaijan</i> <i><sup>2</sup>Azerbaijan University of Architecture and Construction,  Azerbaijan</i>
<b>12:30 – 12:40</b>	<b>Space photography and uses</b>  <b>Utkir Islomov, Ilkhomjon Musaev</b> <i>Tashkent Institute of Irrigation and Agricultural  Mechanization Engineers, Uzbekistan</i>

<b>12:40 – 12:50</b>	<b>Digital transformation in soil research: geospatial infrastructure and aero-space research</b>  <b>Afgan Huseynov<sup>1</sup>, Aygun Babayeva<sup>2</sup>, Sadaqet Adigozalova<sup>2</sup>, Araz Gasymov<sup>1</sup>, Mehman Mehdiyev<sup>3</sup></b> <sup>1</sup> <i>Azerbaijan State Agricultural University, Azerbaijan</i> <sup>2</sup> <i>Institute of Agrarian Problems, Azerbaijan</i> <sup>3</sup> <i>Ganja State Agricultural College, Azerbaijan</i>
<b>12:50 – 13:00</b>	<b>Cemeteries as urban ecosystems: a thematic and theoretical evaluation of visitor behaviors</b>  <b>Meryem Hayır Kanat</b> <i>Yildiz Technical University, Türkiye</i>
<b>13:00 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 14:10</b>	<b>GIS-based analysis of the impact of soil cover on rainwater infiltration and surface runoff in the Aghdam region</b>  <b>Kamina Agayeva, Vasif Babayev, Narmin Asadzada</b> <i>Water and Amelioration Scientific Research Institute, Azerbaijan</i>
<b>14:10 – 14:20</b>	<b>Urgent tasks of mapping the ecological condition of irrigated lands in the Zarafshan valley under climate change conditions</b>  <b>Ilkhomjon Musaev, Rustam Oymatov</b> <i>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Uzbekistan</i>
<b>14:20 – 14:30</b>	<b>Modern status and prospects of health tourism of the Republic of Azerbaijan</b>  <b>Gulshan Sultanova, Khumar Khanim Dadashova</b> <i>Baku State University, Azerbaijan</i>
<b>14:30 – 14:40</b>	<b>Updating and compilation methods of thematic maps based on aerospace materials</b>  <b>Mubariz Orujov, Ilhama Garibova</b> <i>Baku State University, Azerbaijan</i>

<b>14:40 – 14:50</b>	<b>The impact of geopolitical conflicts on the tourism industry of the South Caucasus</b>  <b>Asif Aliyev</b> <i>Baku State University, Azerbaijan</i>
<b>14:50 – 15:00</b>	<b>Mathematical modelling of the impact of Caspian sea level fluctuations on groundwater and ecological problems in the coastal zone of the Absheron peninsula</b>  <b>Babek Sultanov<sup>1</sup>, Farid Gadirly<sup>2</sup>, Gulnar Hajiyevea<sup>3</sup></b> <sup>1</sup> <i>Institute of Geology and Geophysics, Azerbaijan</i> <sup>2</sup> <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i> <sup>3</sup> <i>Baku State University, Azerbaijan</i>
<b>15:00 – 15:10</b>	<b>The impact of religious pluralism on cultural heritage tourism</b>  <b>Lamiya Khalilova</b> <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i>
<b>15:10 – 15:20</b>	<b>Comparative ecological indicators of landscapes vegetation in Azerbaijan arid zones</b>  <b>Aygun Ismayilova</b> <i>Baku State University, Azerbaijan</i>
<b>15:20 – 15:30</b>	<b>GIS-based assessment of the eco-geomorphological condition and change tendencies of the Agzibirchala lagoon lake</b>  <b>Gunay Abbasova</b> <i>Water and Amelioration Scientific Research Institute, Azerbaijan</i>
<b>15:30 – 16:00</b>	<b>Coffee Break</b>
<b>16:00 – 16:10</b>	<b>Creation of geospatial data infrastructure, digital mapping and aerospace research methods</b>  <b>Mirtalib Mammadli, Tamilla Karimova</b> <i>Odlar Yurdu University, Azerbaijan</i>

<b>16:10 – 16:20</b>	<p><b>Satellite (aerospace) data application in the monitoring of water resources: use in hydrogeological studies and irrigation system management</b></p> <p><b>Hasan Gurbanlı</b>, Tamilla Karimova  <i>Odlar Yurdu University, Azerbaijan</i></p>
<b>16:20 – 16:30</b>	<p><b>IsoBuffer: a topographically adaptive multi-hazard variable-width buffer framework for risk corridors along major oil pipelines in Azerbaijan</b></p> <p><b>Aslan Babakhanov</b>  <i>Institute of Geography named after acad. H.Aliyev, Azerbaijan</i></p>
<b>16:30 – 16:40</b>	<p><b>Structural changes in drug consumption in the Republic of Azerbaijan</b></p> <p><b>Goshgar Mammadov</b>  <i>Baku State University, Azerbaijan</i></p>
<b>16:40 – 16:50</b>	<p><b>Spatial organization and sustainable development perspectives of fruit growing in the Guba–Khachmaz economic region</b></p> <p><b>Eltaj Jabiyev<sup>1</sup></b>, Sahil Galandarov<sup>2</sup>  <sup>1</sup><i>Baku State University, Azerbaijan</i>  <sup>2</sup><i>Shaanxi Normal University, China</i></p>
<b>16:50 – 17:00</b>	<p><b>The strategic significance and implementation mechanisms of the Singapore free economic zone model for Azerbaijan</b></p> <p><b>Fidan Ahmadova</b>  <i>Baku State University, Azerbaijan</i></p>

December 23, Tuesday

## POSTER SESSION

11:30-12:00

### Academic Building III, 1<sup>st</sup> Floor

1. **Changes in the geochemical parameters of groundwater in the seismoactive zones of Azerbaijan in relation to seismic events**

**Avaz Mammadov<sup>1</sup>, Sabina Kazimova<sup>2</sup>,  
Aybaniz Karamova<sup>2</sup>, Simara Mammadzada<sup>2</sup>**

*<sup>1</sup>Baku State University, Azerbaijan*

*<sup>2</sup>Republican Seismic Survey Center, Azerbaijan*

2. **Analysis of stress-deformation conditions in lithosphere of Caucasus (Azerbaijan)**

**Elnara Akhmadova**

*Baku State University, Azerbaijan*

3. **New scheme of oil and gas geological zoning of the Dzheyrankechmez depression**

**Sudaba Aliyeva, Fikret Dunyamaliev**

*Azerbaijan State Oil and Industry University, Azerbaijan*

4. **Seismicity of Gadabay ore region**

**Savalan Dadashov**

*Ministry of Ecology and Natural Resources, Azerbaijan*

5. **Seismically active zones of the Azerbaijani part of the Greater Caucasus**

**Sariyya Mirzayeva, Adnan Aliyev**

*Baku State University, Azerbaijan*

6. **Structure and evolution of the upper jurassic complex in the South-Eastern Caucasus (Azerbaijan)**

**Zabita Mehdiyeva**, Tahmina Garayeva

*Institute of Geology and Geophysics, Azerbaijan*

7. **Epithermal Au–Ag mineralization in the Vejnyal Deposit: alteration zoning, fluid pathways, and exploration implications**

Anar Valiyev, Vusal Amirkhanov, Atabay Nushravanov,  
Javid Ibrahimov, **Sabuhi Mammadov**, Tamkin Huseynov  
*Azerbaijan International Mining Company, Azerbaijan*

8. **Temperature gradient and heat flow on the geothermal areas in Absheron Peninsula**

**Aygun Mammadova**

*Baku State University, Azerbaijan*

9. **Groundwater regime of the Shirvan steppe in the Republic of Azerbaijan**

**Chingiz Gulammammadov**

*Water and Irrigation Scientific Research Institute, Azerbaijan*

10. **Results of thermomagnetic analysis of the Shahbuz section (Paleogene, Nakhchivan)**

**Arzu Baghirova**

*Institute of Geology and Geophysics, Azerbaijan*

11. **Paleomagnetic properties of Upper Eocene rocks in the Talysh structural zone**

**Adilekhanim Babayeva<sup>1</sup>**, Tahmina Garayeva<sup>2</sup>

<sup>1</sup>*Baku State University, Azerbaijan*

<sup>2</sup>*Institute of Geology and Geophysics, Azerbaijan*

12.	<p><b>Structural Controls and Hydrothermal Mineralisation in the Gosha High-Sulfidation Epithermal System</b></p> <p><b>Anar Valiyev, Elchin Aliyev, Eldar Maharramov, Tural Sariyev, Samir Mursalov, Rashad Asgarov, Nader Abbaszadeh, Tamkin Huseynov</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
13.	<p><b>Seismic exploration on the prediction of oil and gas fields</b></p> <p><b>Ali Novruzov, Konul Guluzade, Azad Azadzade</b>  <i>Baku State University, Azerbaijan</i></p>
14.	<p><b>A study of the electrical properties of iron hydroxides under high temperature and pressure conditions</b></p> <p><b>Avaz Mammadov</b>  <i>Baku State University, Azerbaijan</i></p>
15.	<p><b>Genesis of mineral deposits of the Chiragdara ore field</b></p> <p><b>Nurana Ahmadova</b>  <i>Baku State University, Azerbaijan</i></p>
16.	<p><b>Multi-Scale Geophysical Exploration Across AIMC Contract Areas: Integrated Magnetometry, IP/Resistivity, AEM and Structural Modelling for Porphyry–Epithermal Targeting</b></p> <p><b>Anar Valiyev, Nader Abbaszadeh, Samir Mursalov, Javid Ibrahimov, Sabuhi Mammadov, Aydin Bayramov</b>  <i>Azerbaijan International Mining Company, Azerbaijan</i></p>
17.	<p><b>Typomorphic features of pyrites from porphyry copper deposits in the northeastern part of the Lesser Caucasus</b></p> <p><b>Nuraddin Abbasov, Ilgar Guliyev, Adnan Aliyev</b>  <i>Baku State University, Azerbaijan</i></p>
18.	<p><b>Distinguishing between natural and man-made seismicity</b></p> <p><b>Gurban Yetirmishli<sup>1</sup>, Avaz Mammadov<sup>2</sup>, Saida Ismayilova<sup>1</sup>, Shirin Islamova<sup>1</sup></b>  <sup>1</sup><i>Republican Seismic Survey Center, Azerbaijan</i>  <sup>2</sup><i>Baku State University, Azerbaijan</i></p>

**19. Modern Seismogeodynamics of the Lesser Caucasus**

**Sabina Kazimova**, Gulnar Guseinzade, Arzu Mammadova,  
Senem Mekhtiyeva, Turan Yusifova

*Republican Seismic Survey Center, Azerbaijan*

**20. About tectonic features of Miocene sediments of South-Eastern Gobustan**

**Gizgayit Abbasova**<sup>1</sup>, **Sevinj Farajova**<sup>2</sup>

<sup>1</sup>*Azerbaijan State Oil and Industry University, Azerbaijan*

<sup>2</sup>*Baku State University, Azerbaijan*

**21. On the oil and gas prospects of the Maikop sediments of the Yevlakh-Aghjabadi depression**

**Vagif Gurbanov**<sup>1</sup>, **Mirravan Manafli**<sup>2</sup>

<sup>1</sup>*Azerbaijan State Oil and Industry University, Azerbaijan*

<sup>2</sup>*Baku State University, Azerbaijan*

**22. Geological and geophysical studies of the Paleogene-Mesozoic deposits of the Pre-Caspian-Guba region in connection with oil and gas potential**

**Sudaba Aliyeva**

*Azerbaijan State Oil and Industry University, Azerbaijan*

**23. Comparative Analysis of the Geological and Mineralization Features of the Zod Gold Deposit with International Analogues**

**Huriyya Azayeva**

*Ministry of Ecology and Natural Resources, Azerbaijan*

**24. Main prediction terms of oil and gas deposits based on refracted waves**

**Ali Novruzov**, Aygun Mammadova, Bahram Suleymanov

*Baku State University, Azerbaijan*

**25. Geological Characteristics and Formation Features of the Agyokhush Group of Deposits (Dashkesan Ore District)**

**Nazim Imamverdiyev**, Sultan Jafarov

*Baku State University, Azerbaijan*

26. X-ray investigation of mesolites occurring in the mountainous Talysh Area
- Ulviyya Yuzbashova**, Karim Rahimov, Jabrail Mirzai  
*Baku State University, Azerbaijan*
27. Some issues of fauna and ecology related to the geological development of the Azerbaijani part of the Greater Caucasus in the early Jurassic
- Shakir Balammadov**, Aladdin Mamedalizade  
*Baku State University, Azerbaijan*
28. Prospects of rare elements distributed in minerals of stratiform deposits located in the southern slope of the Greater Caucasus
- Nigar Sattarzade<sup>1</sup>**, Vahid Hamzayev<sup>2</sup>  
<sup>1</sup>*Baku State University, Azerbaijan*  
<sup>2</sup>*Azerbaijan State Oil and Industry University, Azerbaijan*
29. Integrated Petrographic and Mineralogical Characteristics of Major AIMC Contract Areas: Implications for Porphyry-Epithermal System Evolution in the Lesser Caucasus
- Anar Valiyev, Samaya Hasanova, Gunduz Kazimov, Dinara Abdurazakova,  
**Arzuman Rizvanoghlu**  
*Azerbaijan International Mining Company, Azerbaijan*
30. The role of diagenetic processes in the change of the hard skeleton of the Late Cretaceous invertebrates (belemnites, brachiopods, echinids) of the Lesser Caucasus
- Aladdin Mamedalizade<sup>1</sup>**, Shafaq Bayramova<sup>2</sup>,  
**Shakir Balammadov<sup>1</sup>**, Lala Ahmadova<sup>1</sup>  
<sup>1</sup>*Baku State University, Azerbaijan*  
<sup>2</sup>*Institute of Geology and Geophysics, Azerbaijan*
31. Ecogeographical characteristics of the Gizilaghaj National Park of Azerbaijan
- Sona Osmanova, **Liu Zixuan**  
*Baku State University, Azerbaijan*

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32. **The role of biological reclamation in the restoration of disturbed geosystems of the north-eastern part of the Lesser Caucasus (within Azerbaijan)**

**Zuleykha Eyyubova**

*Baku State University, Azerbaijan*

33. **Ecogeographical assessment of Azerbaijan's mud volcanoes: landscape dynamics and geopark development potential**

**Tahir Yunuslu, Akif Aghbabali**

*Baku State University, Azerbaijan*

34. **Research on the ecochemical composition of "zinc oxide" waste received from Baku Steel melting plant based on XRF analysis**

**Naila Jafarova**

*Baku State University, Azerbaijan*

35. **Comparative analysis of environmental conditions of the Shirvan National Park with other analogous areas**

**Shovgi Goychayski, Khayala Elipenahova**

*Baku State University, Azerbaijan*

36. **Efficient land use, agricultural productivity, and agro-ecological challenges**

**Gunel Hamidova, Tamilla Karimova**

*Odlar Yurdu University, Azerbaijan*

37. **Investigation of manganese in natural water sources**

**Ayten Samedova**

*Baku State University, Azerbaijan*

38. **Tourism and recreational resources of the Sheki-Zagatala economic region**

**Maya Zeynalova, Narmin Handamzade**

*Baku State University, Azerbaijan*

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**39. Ecotourism as a tool for sustainable tourism**

**Sakina Zulfugarova**

*Baku State University, Azerbaijan*

**40. Regulation of nitrogen metabolism in soybean under field conditions by trichoderma micromycetes and their synergy with rhizobium**

**Surayya Ismaylova, Aladdin Gadimov**

*Azerbaijan State Agricultural University, Azerbaijan*

**41. Dynamics of Agricultural Soil Indicators in the Masalli District**

**Shabnam Alizade**

*Baku State University, Azerbaijan*

**42. The role of reverse osmosis and electro dialysis technologies in soil reclamation: treatment of saline waters and normalization of soil conditions**

**Narmin Guliyeva**

*Water and Amelioration Scientific Research Institute, Azerbaijan*

**43. Cooperation of the Republic of Azerbaijan with foreign countries and international organizations in the field of green energy**

**Shahla Khalafova**

*Baku State University, Azerbaijan*

**44. Ecological investigation of the impact of forest-vegetation cover dynamics on bare soil (lepidolite mineral) exposures in the study area using spaceborne remote sensing technologies**

**Akif Aghbabali, Valida Mammadaliyeva, Numuna Naghiyeva**

*Baku State University, Azerbaijan*

**45. Evaluation of the breeding value of barley genotypes introduced from icarda under the rainfed conditions of Gobustan**

**Aysel Labazanova**

*Resesarch Institute of Crop Husbandry, Azerbaijan*

46.	<p><b>Analysis of soil indicators and biomass in summer pastures of Guba region using remote sensing methods</b></p> <p><b>Goshgar Mammadov, Emil Poladov</b>  <i>Baku State University, Azerbaijan</i></p>
47.	<p><b>Continuous education for a green future</b></p> <p><b>Sevda Iskenderova</b>  <i>Baku State University, Azerbaijan</i></p>
48.	<p><b>Sustainable future: integrated development of earth and ecological sciences</b></p> <p><b>Nuray Agazada, Tamilla Karimova</b>  <i>Odlar Yurdu University, Azerbaijan</i></p>
49.	<p><b>Green raw materials for 3D bioprinting in the food industry</b></p> <p><b>Khadija Valiyeva</b>  <i>Baku State University, Azerbaijan</i></p>
50.	<p><b>Ways to increase agricultural land productivity in the Ismailli district</b></p> <p><b>Hayat Shakiliyeva</b>  <i>Baku State University, Azerbaijan</i></p>
51.	<p><b>Ecological assessment of the impact of the aerosol optical depth (AOD) index on forest-vegetation cover (NDVI) and hydrological conditions (MNDWI) in the Hakari River basin using geospatial technologies</b></p> <p><b>Valida Mammadaliyeva<sup>1</sup>, Gunel Heydarzada<sup>1</sup>, Vusala Nasirova<sup>2</sup></b>  <sup>1</sup><i>Baku State University, Azerbaijan</i>  <sup>2</sup><i>Research Institute of Aerospace Informatics, Azerbaijan</i></p>
52.	<p><b>Integrating cloud point extraction and ICP-OES: an ecologically safe approach in analytical chemistry</b></p> <p><b>Fidan Yolchiyeva</b>  <i>Baku State University, Azerbaijan</i></p>

**53. The role of Gizilaghaj National Park in biodiversity conservation**

**Akif Aghbabali, Ramil Hasanov**

*Baku State University, Azerbaijan*

**54. The impact of environmental disasters caused by armed conflicts in Garabagh on climate change**

**Sona Osmanova**

*Baku State University, Azerbaijan*

**55. Assessment of the ecological sustainability and agroecological advantages of various substrates for greenhouse vegetable cultivation**

**Sara Sadigli**

*Baku State University, Azerbaijan*

**56. The influence of different growing seasons on the baking quality of cereals: a study of four soft wheat varieties**

**Leyla Hasanova**

*Research Institute of Crop Husbandry, Azerbaijan*

**57. Impacts of hazardous atmospheric events on the agricultural sector**

**Ilaha Ibrahimova**

*Ministry of Ecology and Natural Resources, Azerbaijan*

**58. Challenges and ways to improve food resilience in the face of climate change in Azerbaijan**

**Mirsultan Ismailov**

*Baku State University, Azerbaijan*

**59. A study on the demographic patterns of the Karabakh economic region of the Republic of Azerbaijan**

**Saleh Naghiyev, Chingiz Galandarov, Imran Bayramov**

*Baku State University, Azerbaijan*

60. **Analysis of the current population of the Republic of Azerbaijan and its development dynamics**  
**Gabil Samadov**  
*Baku State University, Azerbaijan*
61. **Analysis of the spread of diseases in rural settlements of the Gusar District**  
**Samir Ahmadov, Raziye Talibova**  
*Baku State University, Azerbaijan*
62. **Classification and development of cultural monuments of local, national, and global significance in Azerbaijan**  
**Gunay Musayeva**  
*Baku State University, Azerbaijan*
63. **Ecological tourism as a new direction in tourism**  
**Nargiz Chandirli, Rena Umudova**  
*Baku State University, Azerbaijan*
64. **Investigation of drying processes in *Pinus Eldarica* Medw. using the plant photosynthesis meter 3051C device**  
**Samira Baghirova, Leyla Javadova, Lala Nasirli, Arzu Akhundova, Jamala Agayeva, Lala Jalilova**  
*"Dendrology Garden" public legal entity, Azerbaijan*
65. **Geographical names of turkish origin in Russia**  
**Elkhan Nuriyev**  
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**Ilham Mardanov**<sup>1</sup>, Mehman Mehbaliev<sup>2</sup>

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**Magsad Gojamanov**<sup>1</sup>, Alishir Ismayilov<sup>2</sup>

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**87. 1D and 2D modeling for integrated interpretation of electromagnetic data of Perikishkul, Azerbaijan**

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**88. Climatic characteristics of the Absheron peninsula and their role in soil formation processes on the peninsula**

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