



**MINISTRY OF MINING INDUSTRY
AND GEOLOGY
OF THE REPUBLIC OF UZBEKISTAN
UNIVERSITY OF GEOLOGICAL SCIENCES
STATE ESTABLISHMENT “INSTITUTE OF
HYDROGEOLOGY AND ENGINEERING
GEOLOGY”**



International Scientific and Practical Conference
“MODERN PROBLEMS AND THEIR SOLUTIONS IN THE FIELD OF
HYDROGEOLOGY, ENGINEERING GEOLOGY AND GEOECOLOGY”
DEDICATED TO THE 65TH ANNIVERSARY OF THE FOUNDING OF THE
STATE ESTABLISHMENT
“INSTITUTE OF HYDROGEOLOGY AND ENGINEERING GEOLOGY”

Tashkent, November 20-21, 2025

First Circular

Dear Colleagues!

In order to ensure the implementation of the Presidential decree of the Republic of Uzbekistan dated January 28, 2022 No.60 “On the development strategy of new Uzbekistan for 2022-2026”, containing instructions on the development of scientific research in the field of geology and the implementation of their results in practice to increase the mineral resource base necessary for the economy, as well as on the basis of the order of the Ministry of higher education, science and innovation of the Republic of Uzbekistan dated December 27, 2024 No. 490, the organizing committee of the conference invites you to take part in the international scientific and practical conference **“Modern problems and their solutions in the field of hydrogeology, engineering geology and geoecology”**, dedicated to the **65th anniversary of the State Establishment “Institute of hydrogeology and engineering geology”**, which will be held on **November 20-21, 2025**.

The international scientific and practical conference will discuss a wide range of issues, including the development of geology and the mining industry, the search for scientific and practical solutions to current problems, as well as the introduction of innovative technologies in the field of hydrogeology, engineering geology and geoecology.

Composition of the organizing committee for the preparation and holding of the international scientific and practical conference

Presidium of the Organizing Committee:

1. Islamov Bobir Farkhadovich
2. Nasritdinkhodjaev Omonullo Zabikhullaevich
3. Yusupov Rustam Paizrakhmanovich
4. Yusupov Ural Sadullaevich
5. Kadirkhodjaev Azam Alisherovich

Members of the Organizing Committee:

1. Pulatov Nurbek Bakhromovich
2. Gafforov Mirgiyos Abduakhat ugli
3. Dulabova Nafisa Yusupovna
4. Bimurzaev Gani Amirgalievich
5. Yuldashev Sherali Yorkulovich
6. Turabdjanov Sadritdin Makhamatdinovich
7. Kodirov Obidjon Shavkatovich
8. Isokov Maksud Uzokovich
9. Karshiev Odash Abdugafforovich
10. Inatov Nurbek Komiljonovich
11. Anorboev Fazliddin Zaynitdin ugli

12. Ismailov Vakhitkhan Alikhanovich
13. Abdullabekov Kakharbay Nasirbekovich
14. Mavlonov Aslon Akramovich
15. Okhunov Farrukhzhon Abdukakhorovich
16. Khaydarov Feruz Ganijonovich
17. Aytmetov Bobir Rustemovich
18. Niyazov Rustam Aminovich
19. Bakiev Saidnasim Alimovich
20. Zakirov Mirabbas Mirsaatovich
21. Abdullaev Botirjon Dadajonovich
22. Ibragimov Aziz Sabirovich
23. Khushvaktov Saidulla Kholbazarovich
24. Mumindjanov Taladjon Israilovich
25. Ismailov Bakhtiyar Jantievich
26. Abdullaev Shavkat Khadiyaevich
27. Tulyaganov Bakhodirjon Ismailovich
28. Uralov Ibragim Fakhriddinovich
29. Alimukhamedov Ilkhom Mizratovich
30. Bozorov Jonibek Shavkatovich
31. Ochilov Golibjon Ernazar ugli
32. Agzamova Inobat Abduvakhidovna
33. Tadjibaeva Nodira Ruzievna
34. Juraev Marifali Turgunbaevich
35. Mingboev Kodirjon Ruzimovich
36. Anorboev Erkin Alisher ugli
37. Meylieva Muniskhon Normuminovna

Scientific Secretary of the Conference:

1. Toshev Shakhriyor Doniyorovich

Secretariat of the Organizing Committee:

1. Rakhimov Nodirjon Najmiddin ugli
2. Kurbonov Elboy Shavkatovich
3. Abdullaev Bakhromjon Dadajonovich
4. Akramov Botir Aslon ugli

The working languages of the conference are Uzbek, Russian, and English.

The main topics of the conference:

Section No. 1. "The legacy of the founders of Hydrogeology and Engineering Geology in the Republic of Uzbekistan".

Objective: study and analysis of the scientific heritage of the State Establishment "Institute of hydrogeology and engineering geology". The section is aimed at assessing the significance of the scientific heritage, its

role and importance in modern hydrogeology and engineering geology, as well as determining the effective use in the training of highly qualified personnel and in the scientific activities of the institute in the future.

Discussion topics:

The activities of veterans and outstanding scientists who worked at the Institute in the field of hydrogeology and engineering geology, their scientific heritage, scientific developments, contribution to the creation of new methods, as well as research conducted in the relevant areas will be analyzed. Particular attention will be given to the possibilities of wide application of this heritage in future scientific research conducted at the institute.

Section No. 2. “Modern problems of hydrogeology, innovative approaches and solutions in their study”.

Objective: Identification and analysis of modern problems of hydrogeology, assessment of the impact of environmental, climatic and anthropogenic factors on underground water resources, as well as development and implementation of innovative approaches and technologies for the effective solution of these problems.

Discussion topics:

This section discusses the results of scientific, practical, fundamental, innovative and theoretical research in the following areas: prospecting and exploration of groundwater, approval of its reserves and resource assessment; rational use and accounting of groundwater, increasing its reserves by creating an effective monitoring system based on modern technologies; protection of groundwater from depletion and pollution; the impact of climate change on groundwater resources; assessment of the meliorative and hydrogeological state of territories; sustainable management of groundwater resources in the context of global change; mathematical modeling of groundwater movement; diversification of sources of mineral, thermal, industrial waters and hydromineral resources, as well as assessment of their prospects; technology for extracting strategically important elements from groundwater; technological disaster and their impact on groundwater; restoration and rehabilitation of contaminated aquifers; use of geographic information systems (GIS).

Section No. 3. “The importance of Engineering Geology in studying hazardous geological processes, and advanced technologies and methods for their early detection or mitigation of consequences”.

Objective: Definition of modern problems of engineering geology, comprehensive analysis of the development of engineering-geological processes and assessment of factors influencing them, as well as the introduction of advanced technologies and innovative approaches to eliminate and mitigate their negative consequences.

Topics for discussion:

This section will discuss the results of scientific, practical, fundamental, innovative and theoretical research in the following areas: identification and assessment of the dynamics of engineering-geological phenomena and

processes; study of hazardous geological processes based on modern methods, their natural and anthropogenic causes, formation mechanisms; mitigation of the consequences and early warning systems of landslide processes; development of multilateral strategies to ensure sustainability and improve preparedness in the event of natural phenomena; application of the remote sensing method in territorial monitoring; study of physical processes occurring in the rock massif in the mining industry; analysis of quarry wall deformation and assessment of their development; geotechnical control at hydraulic structures; application of seismic exploration methods, seismic tomography, electrical exploration, electrical tomography, electrical profiling, radiometry, ground-penetrating radar methods; determination of the physical and mechanical properties of rocks; prevention of deformation processes and mitigation of their negative consequences; application of modern geographic information systems (GIS).

Section No. 4. “Urgent issues in geoecology during the era of global climate change: problems and approaches to their solution”.

Objective: Analysis of modern problems in the field of geoecology, identification of adverse geoecological changes caused by human activity (anthropogenic impacts) and global climate change, study of their negative impact on natural resources, ecological systems and life of the population, as well as ensuring sustainable environmental and economic development through the development and implementation of advanced technologies and innovative approaches to eliminate and mitigate these problems.

Discussion topics:

This section discusses the results of scientific, practical, fundamental, innovative and theoretical research in the following areas: analysis and assessment of changes and negative impacts caused by human activities (erosion, pollution of soil, surface and groundwater resources, industrial waste, agriculture); the impact of climate change on ecological systems on the Earth's surface and human health (reduction of green spaces, water deficit); forecasting geoecological changes in the context of global climate change; the use of geoengineering technologies for the restoration and stabilization of degraded territories (combating desertification); bioremediation and phytoremediation methods for the restoration of contaminated lands and ponds; assessment of the impact of climate change on the dynamics of geoecological processes by modeling scenarios of changes in temperature, precipitation and other climatic factors; development and implementation of digital models for assessing the impact of anthropogenic and climatic factors on geoecological systems (models of water balance, soil erosion, movement of substances); analysis and assessment of pollution of groundwater, surface water and soil by oil products in the areas of oil facilities; development of measures for environmental protection; areas of application of modern geographic information systems (GIS).

Section No. 5. “The contribution of young people to the development of modern science in the fields of hydrogeology, engineering geology, and geoecology”.

Objective: Expanding the role of young people in scientific and practical activities in the field of hydrogeology, engineering geology and geoecology, as well as increasing their contribution to the development of new knowledge and innovative solutions in these areas.

Discussion topics:

This section will consider issues of involving the younger generation in scientific research and exploration, as well as the application of theoretical knowledge in the field of hydrogeology, engineering geology and geoecology to solve real problems. Particular attention will be given to discussing the scientific and innovative ideas of young people, their role in the development and implementation of new technologies in practical activities. The section will also discuss ways to increase the interest of young people in these areas, familiarization with advanced methods and modern technologies, stimulating the development of new approaches to the prevention of environmental and geological risks, as well as environmental protection. Particular attention will be given to improving curricula and creating opportunities for young people to develop their knowledge and skills.

Important dates:

Sending of the first circular – **until July 10, 2025;**

Sending of the second circular – **until August 29, 2025;**

Applications and abstracts submission – **until September 30, 2025;**

Sending of invitations and conference program – **until October 16, 2025;**

Conference dates – **November 20-21, 2025.**

Venue:

Republic of Uzbekistan, Tashkent city, Mirzo-Ulugbek district, Olimlar street, building 64, University of Geological Sciences.

Forms of participation:

Offline and online (via Zoom).

Conditions of participation:

No registration fee is required to participate in the conference and publish abstracts (articles). Conference participants can choose their own place of residence. The organizing committee is ready to assist in booking hotel rooms in Tashkent upon prior request.

Abstract requirements

Abstracts must be presented without spelling errors on relevant topics corresponding to the conference areas, based on scientific analysis and complete ideas. You can participate in the conference with abstracts in Uzbek,

Russian and English. Abstracts and applications for participation in the conference are accepted **until September 30, 2025** by e-mail: **65hydroengeo@gmail.com**.

Abstracts must be typed in Times New Roman, 12 font size, line spacing 1.5, paragraph indentation 1.25 cm, the volume should not exceed 6-7 pages.

All page margins must be set equal to 2 cm.

The structure of the abstract text:

- Abstract title (in capital letters, bold, centered);
- Full name of the author(s) (bold, centered);
- Country, place of work (study), position, academic degree, academic rank (centered);
- Abstract text;
- List of references.

Abstracts are sent as an electronic file in *.doc, *.docx format indicating the section number and the full name of the first author (For example: 1. Toshev Sh.D.). Figures, diagrams and graphs used in the abstract text must be sent as separate files indicating their serial numbers.

The organizing committee reserves the right not to include abstracts in the collection that do not correspond to the main areas of the conference or are not formatted according to the established requirements. In case of rejection of abstracts due to non-compliance with the conference topics, violation of the submission deadlines or formatting requirements, they are not published and are not returned to the author.

The address of the conference organizing committee: 100164, Republic of Uzbekistan, Tashkent, Mirzo-Ulugbek district, Olimlar street, 64, State Establishment "Institute of Hydrogeology and Engineering Geology", +99871 209-10-79, www.hydroengeo.uz

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You can obtain additional information about the event on our official pages:

Telegram: <https://t.me/hydroengeo>

Facebook: <https://facebook.com/hydroengeo>

Instagram: <https://instagram.com/hydroengeo>

YouTube: <https://www.youtube.com/@hydroengeo>

Official website: <https://hydroengeo.uz>

PARTICIPANT REGISTRATION FORM

Participant's photo size 3x4	Full name	
	Name of organization, position	
	Academic degree, academic title	
	Phone number	
	E-mail	
	Thesis Title	
	The need to reserve hotel accommodation (number of beds)	

Participation form:

Offline (with presentation)	
Offline (listener)	
Online (via Zoom, with presentation)	
Online (via Zoom, listener)	

Registered participants will be provided with a link and code to connect via the ZOOM program.

Sample Format for Theses in English

TITLE OF THE THESIS

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Text. Text. Text. Text. Text [1, 75-p.].

References:

1. Rasulov A.A., Mavlonov A.A. Article title // Journal title. Year. Volume. Number. Pages (P. 94-105)