



VITEBSK  
STATE  
UNIVERSITY  
named after P.M. Mashchov

33, Moskovsky Av., 210038, Vitebsk, Belarus  
Tel.: +375 (212) 37-58-45, Fax: +375 (212) 37-49-59  
E-mail: [galkin-alexandr@yandex.ru](mailto:galkin-alexandr@yandex.ru); <https://vsu.by/>

# The Belarusian National Group of the International Association for Engineering Geology and the Environment (IAEG)



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## The Belarusian National Group of the International Association for Engineering Geology and the Environment (IAEG)

**The Belarusian National Group IAEG was created in March 2021 on the basis of the Educational Establishment “Vitebsk State University named after P.M. Masherov”.**





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## The Belarusian National Group of the International Association for Engineering Geology and the Environment (IAEG)

**Vitebsk State University is a classical university founded in 1910 and one of the oldest higher education institutes in Belarus. Its activities are mainly related to education, scientific research, technical and innovative practices.**

**The main goals of University are training of specialists with higher education and masters in accordance to the needs of society, organization and implementation of innovation research and other activities related to the most important problems of science, technology and industry.**

**Today Vitebsk State University includes 10 Faculties with researchers and specialists in the field of engineering geology, geoecology, geography and geoinformatics, engineering survey, etc.**



## The motive behind its creation was three points.

- **The first point is fundamental changes in the social and economic spheres of the country's life - the formation in 1991 of a new state - the Republic of Belarus.**
- **The second point is the current state of the development of engineering geology and the protection of the geological environment on a global scale.**
- **The third point is the exchange of new knowledge and achievements among the world community of specialists in the field of engineering geology and the protection of the geological environment.**



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**Currently, the Belarusian national group  
IAEG has six collective members.**



## **Chairman – Aleksandr N. Galkin**

**Doctor of Philosophy, Doctor of Sciences (Geological and Mineralogical), Geological Engineer and Hydrogeologist, Geologist-Ecologist. Professor of the Department of Ecology and Geography of the Faculty of Chemical, Biological and Geographical Sciences of Vitebsk State University named after P.M. Masherov. He is studying the composition, structure, state and properties of soils in Belarus, they compose the soil strata, modern geological and engineering-geological processes, regional features of the formation of engineering-geological conditions.**



## **Secretary – Irina A. Krasovskaya**

**Doctor of Philosophy (Geological and Mineralogical), Geologist-Geophysicist, Geologist-Ecologist. Head of the Research Sector of Vitebsk State University named after P.M. Masherov, concurrently Associate Professor of the Department of Ecology and Geography of the Faculty of Chemical, Biological and Geographical Sciences of the same university. She conducts research in the field of ecological geology, geocological mapping, studies the state of the geological environment and geocological conditions of individual regions under conditions of high anthropogenic load.**



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## Alexey V. Matveev

## Members of the national group.



Academician of the National Academy of Sciences of Belarus, Doctor of Philosophy, Doctor of Sciences (Geological and Mineralogical), Professor, Chief Researcher at the Institute of Nature Management of the National Academy of Sciences of Belarus. He is a recognized leader of the Belarusian school of geologists-Quaternary, a specialist in the problems of glacial litho- and morphogenesis, dynamics of ice sheets, patterns of formation of the relief and anthropogenic cover of Belarus, modern geodynamics, localization of mineral deposits, Head of the Belarusian National Committee for the Study of the Quaternary Period (INQUA).

## Maxim A. Bogdasarov

Corresponding Member of the National Academy of Sciences of Belarus, Doctor of Philosophy, Doctor of Sciences (Geological and Mineralogical), Geologists-Quaternary. Professor of the Department of Geography and Nature Management, Brest State University named after A.S. Pushkin. He studies the structural-material complexes of the Late Cenozoic in the south-west of Belarus. He created a comprehensive picture of the structure and features of the formation of Quaternary deposits in the Brest region as a basis for predicting minerals and rational use of the geological environment. Allocated areas that are promising for a number of minerals (building sands, sand and gravel materials, clay deposits). Member of the Belarusian National Committee for the Study of the Quaternary Period (INQUA).





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## Members of the national group.

### Vasily G. Zhoglo



**Doctor of Philosophy, Doctor of Sciences (Geological and Mineralogical), Associate Professor, Hydrogeologist, Geologist-Ecologist, a major specialist in the field of regional and petroleum hydrogeology, groundwater dynamics and modeling of hydrogeological processes. Head of the Laboratory of Hydrogeology and Hydroecology at the Institute of Nature Management of the National Academy of Sciences of Belarus.**

### Aleksandr I. Pavlovsky



**Doctor of Philosophy (Geographical), Associate Professor, Geomorphologist, Geologists-Quaternary. Head of the Department of Geology and Geography, Gomel State University named after F. Skorina. He studies the composition, state and properties of soils in Belarus, modern geological and engineering-geological processes, conducts research in the field of ecological geology, geoecological mapping, investigates the state of the geological environment and geoecological conditions of certain regions under conditions of high anthropogenic load.**



**Over the past ten years members of the Belarusian national group IAEG in the field of engineering geology and protection of the geological environment have achieved significant success:**

- ❑ the conducted studies in soil science allowed to expand the understanding of the variety of soils in Belarus, the peculiarities of their state, macro- and microstructure, material composition and properties, the originality of the soil strata formed by them, as well as the practical use of soils;
- ❑ the manifestations of modern geological and engineering-geological processes on the territory of cities, sites for the location of mineral deposits, construction sites of various engineering facilities, including critical structures, were studied, a map of extreme geological processes in Belarus and a zoning map for the manifestation of these processes were compiled;



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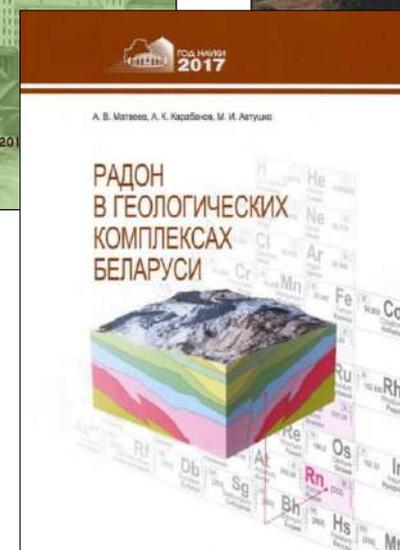
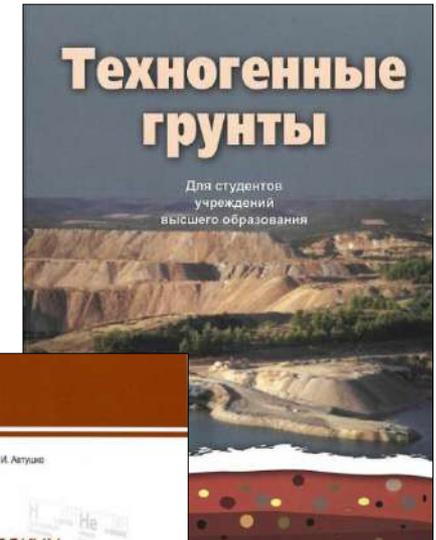
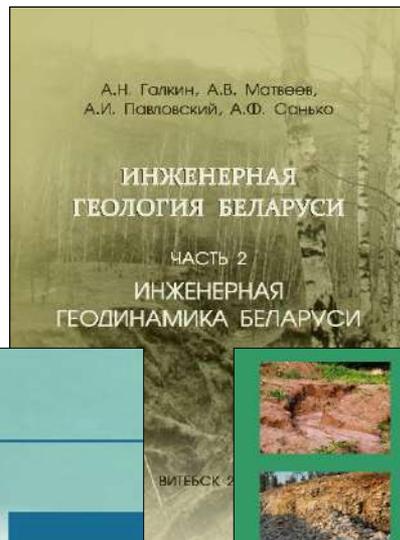
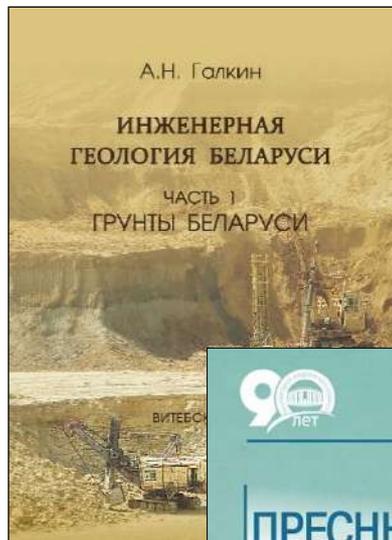
- ❑ a methodology was developed for engineering-geological substantiation of managing the development of negative processes in the field of interaction between engineering structures and components of the geological environment, including on the basis of monitoring;
- ❑ a typification of engineering-geological environments and a map of engineering-geological zoning of Belarus have been developed, a regional engineering-geological typification of lithotechnical systems has been created;





# The Belarusian National Group of the International Association for Engineering Geology and the Environment (IAEG)

- published a number of textbooks and scientific papers of theoretical and applied nature have been published, which can influence the further development of domestic engineering geology.





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**In the coming years we intend to involve other specialists from the Belarusian National Technical University, Belarusian State University, Francysk Skorina Gomel State University and other organizations and institutions of the country working in the field of engineering geology and protection of the geological environment. We see our group as the core of the community of Belarusian geological engineers under the auspices of the IAEG.**

