

GENERAL AND REGIONAL LIMNOLOGY



Director of the school – Leonid Ilyin, Ph. D., Doctor of Geography, Full Professor, Head of the Tourism and Hotel Industry Department at LUEENU; Ukrainian education expert; and a science and research council deputy of National Nature Park “Pripyat–Stohid”; member of Ukrainian Ministry and resorts research council of Economic Development and Trade Tourism; member of the Cheremskyi Nature Reserve science and research council; a founding member of the “West Polissia Wetland” International Ecological Association; a member of the Ukrainian Geographical Society; editorial staff member of national branch-specific and international journals, and of single-author anthologies; a member of the specialized research councils Д 64.051.04 at Vasyl Karazin Kharkiv National University and K 41.090.02 at Odessa State Ecological University.

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Areas of scientific research: a comprehensive study of water bodies in Ukraine, including both natural bodies (lakes) and man-made bodies (water-storage basins and ponds) for construction and geographical purposes; a fundamental presentation of concepts for the efficient use and the protection of these water bodies, and an assessment of natural recreational and tourist resources; new dimensions in constructive geography are offered by ecologically-oriented lake studies and structural limnology, including the development of a theoretical/methodological and a systematic foundation for structural/geographical research into limnosystems (including ones involving branch limnology, complex landscape studies, structural geography, and integrational ecolimnology).

Scientific output of L. Ilyin. More than 250 scientific and educational and methodological works have been published, including 27 in English-language publications and 60 in other languages.

Research supervision of the following Ph. D. theses:

Kalinovskyi D. Recreational Resources of Lakes in the Volyn Region: Assessment, Design and Geographical Principles for Rational Use.

Grynasiuk A. Attractiveness of Volyn Region Scenery.

Gromyk O. The Ecological and Geographical Substantiation of the Optimization of Nature in the Volyn Region Radioactive Pollution Zone.

Pasichnyk M. Sapropelic Recreational and Tourist Resources of Volyn Region.

Summary. The research theme of the school is linked with the goal of developing a theoretical, methodological, and methodical basis for structural and geographical research into limnosystems (including those involving branch limnology, complex comprehensive, structural-geographical and integrational ecolimnological ones). The main objective is connected with regularities of limnogenesis and peculiarities of both natural processes and those activated anthropogeneously or technogeneously in the regional water bodies and their basins, and these have been established with due consideration of zone- and region-specific features.

Scientific activity of the school. An analysis was carried out which related to space and time, as well as to limnology and geography; in addition to this, a typification of water bodies was conducted. Water bodies were studied as an environment for deposition and accumulation of bottom sediments making it possible to establish geochemical indicators of the state of the limnosystem. A structural and geographical synthesis of knowledge relating to water bodies was undertaken along with an integrative

regional estimation of the most important natural resources, and the main patterns for using them rationally in different branches of the economy have been substantiated. As a result of an analysis of the scope of anthropogeneous influence upon the limnosystems, it was possible to discover the transformation processes in water bodies which are due to human activity. Structural and limnological principles for rationally utilizing and preserving water bodies were worked out, and methods were proposed for optimizing the use of water bodies as natural resources. This thesis provides a substantiation of the scientific principles and methods for restoring regional limnosystems.

Members of the School

Dmytro Kalinovskyi, Ph. D. in Geography, Associate Professor in the Tourism and Hotel Industry Department of LUEENU.

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Area of scientific research: assessing and setting forth basic structural and geographical concepts relating to the effective use of water bodies for recreational and tourism purposes.

Oksana Gromyk, Senior Lecturer at the Tourism Department and Head of Licensing and Accreditation of the Lutsk Institute of Human Development

in the Higher Educational Establishment “Open Ukrainian University of Human Development ‘Ukraine’”.

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Areas of scientific research: setting forth basic concepts regarding the ecologically and geographically effective use of water bodies and optimizing their condition; protecting and preserving nature and natural resource potential; conducting environmental analyses of the optimization of exploiting the natural resources in the Volyn region radioactive contamination zone; assessing the environmental condition of limnosystems.

Anastasia Grynasiuk, postgraduate student in the Tourism and Hotel Industry Department of LUEENU.

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Area of scientific research: integrated assessment of the attractiveness of scenic sites for the optimization of the recreational use of natural settings.

Mykhailo Pasichnyk, Assistant in the Department of Tourism and the Hotel Industry at LUEENU.

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Area of scientific research: organo-mineral recreational tourism resources and the prospects for their use in sanatorium and resort management

