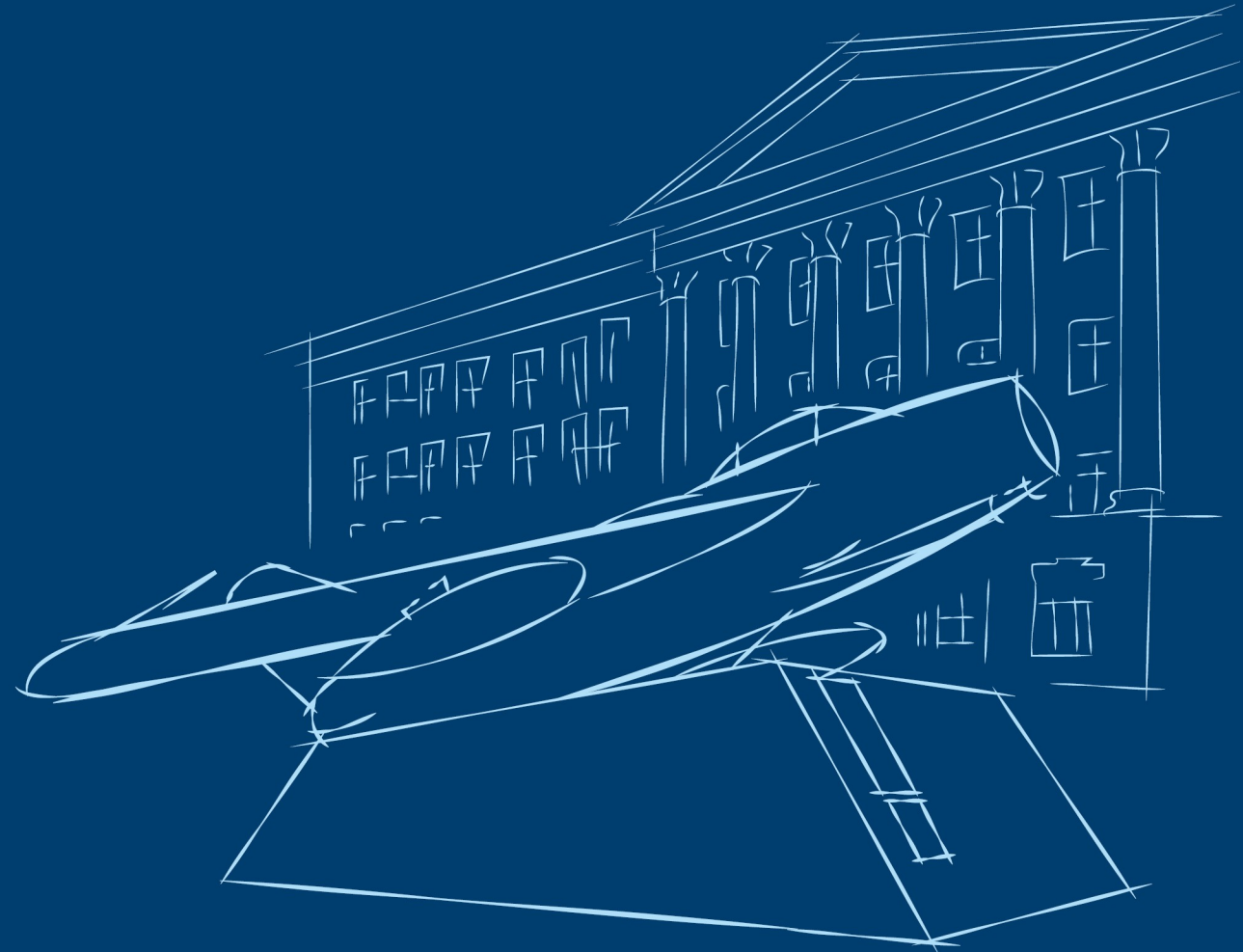




НАЦІОНАЛЬНИЙ
АЕРОКОСМІЧНИЙ УНІВЕРСИТЕТ
«ХАРКІВСЬКИЙ АВІАЦІЙНИЙ ІНСТИТУТ»

NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»

14 Life Below Water



The National Aerospace University “Kharkiv Aviation Institute” implements practical measures aimed at conserving water resources and reducing the anthropogenic impact on the hydrosphere.

Faculty members of the Department of Ecology and Technogenic Safety conduct research on improving autonomous systems for treating domestic wastewater and managing sludge disposal.

Topics related to the protection of aquatic ecosystems, prevention of sea and river pollution, and the development of sustainable water use technologies are integrated into the educational programs.

University students carry out experimental research on field sites and on their own projects. Together with their supervisors, they study the condition of lakes, rivers, seas, and soils, learn proper sampling techniques, work with experimental equipment, operate drones, and process the data obtained from aerial surveys.



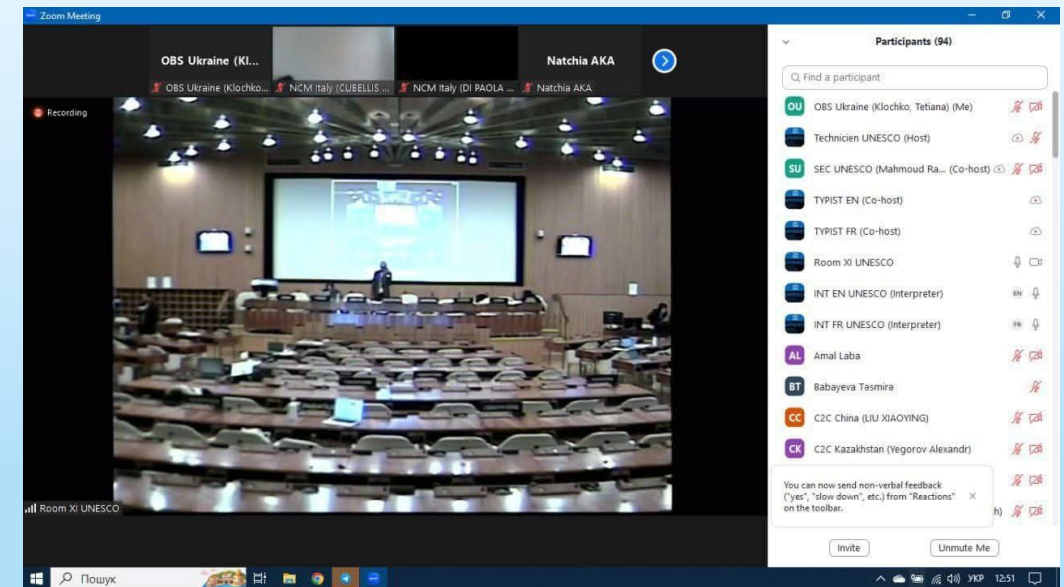
Representatives of the National Aerospace University “KhAI” participated in the 62nd session of the Bureau of the UNESCO Intergovernmental Hydrological Programme, held in a hybrid format at UNESCO headquarters in Paris.

The university was officially invited as an observer from Ukraine, reflecting recognition of KhAI’s contribution to the development of ecological science and education.

During the session, which included representatives from Europe, Africa, Asia, and the Middle East, discussions focused on the state of aquatic ecosystems, sanitary and hygienic monitoring of water bodies, and the impact of water quality on human health.

UNESCO experts paid particular attention to the development of ecological education, innovative research, and water resource management in the context of climate change. These areas are coordinated by international organizations such as the UN, UNEP, UNICEF, UNECE, FAO, WHO, WMO, and IAEA.

The participation of university representatives in UNESCO-led events promotes the expansion of international cooperation, enhances the level of scientific research in water ecology, and facilitates the implementation of global standards within KhAI’s ecological education system.



The National Aerospace University “KhAI” actively supports the protection of marine mammals and ecological education.

In the fall of 2023, the renovated KhAI pool became a new home for two beluga whales from the Kharkiv Dolphinarium.

This initiative not only provided the animals with safe temporary housing but also allowed for observation of their behavior in a nature-oriented environment, enhancing ecological awareness among students and university staff.

In the spring of 2024, the belugas were transferred to Spain, yet their presence provided valuable experience in practical training and in fostering a culture of responsible stewardship of marine ecosystems.

This project exemplifies KhAI’s approach to the protection of marine species, ecological education, and the training of specialists capable of implementing practical solutions for the conservation of aquatic ecosystems.

