



Goal 12. Responsible Consumption and Production.

«Ensure sustainable consumption and production patterns».

Ensure sustainable consumption and production: Karazin University Participated offline in the International Conference on Nanomaterials



From September 10th to 15th, the 13th International Conference "Nanomaterials: Applications&Properties" (NAP) took place in Bratislava, Slovakia. Senior Researcher at the Institute of Materials for Reactor Building and Physical Technologies of the Education and Scientific Institute "School of Physics" at Karazin University, Olga Maksakova, participated in the conference. She presented a report titled "Comparative Study of the Microstructure and Properties of Nanolaminated Coatings TiZrN/NbN and TiSiN/NbN" (co-authors: Professors Vyacheslav Beresnev and Sergii Lytovchenko). This presentation was recognized as one of the top three presentations in the "Multifunctional Thin Films and Coatings" category. The conference primarily focused on showcasing new fundamental and applied results in the field of applications and properties of various groups of nanomaterials and coatings. The conference is multidisciplinary, covering 13 thematic areas, ranging from methods of nanomaterial synthesis and transport properties of nanoscale systems to the application of nanomaterials in biomedicine and green energy.



Research into the applications of nanomaterials, particularly in biomedicine and green energy, contributes to the development of technologies that support sustainability and reduce negative environmental impact.

Karazin University Participated in the Symposium "Sustainable Development - Current State and Prospects" and the Training Program "European Experience in Strategic Planning for Territorial Development Considering Ecosystem Services for Post-War Reconstruction of Ukraine"



Maryna Hryhorieva, Head of the Global Development Department at Karazin University, participated in the IV International Scientific Symposium "Sustainable Development - Current State and Prospects" and underwent training as part of the international winter school program "European Experience in Strategic Planning for Territorial Development Considering Ecosystem Services for Post-War Reconstruction of Ukraine."

The events took place from February 13 to 16, 2024, in Slavske village (Lviv region). The organizers of the symposium and winter school were the National University "Lviv Polytechnic," the V. Chernovol Institute of Sustainable Development, and the NGO "Mission of Sustainable Development."

The topics covered in the events included ecological balance and sustainable land use, environmental safety, tourism, and hospitality management, environmental expertise of goods, civil security, and current issues of land use. Overall, around 250 researchers from Ukraine and Estonia participated in the symposium.

Promoting sustainable management of natural resources – the theme of the symposium covered environmental safety, balanced use of natural resources, and ecosystem services.

The participation of a representative from Karazin University in the symposium and the winter school is a contribution to the implementation of UN Sustainable Development Goal 12, specifically:

- * the development of human capital capable of implementing practices of responsible consumption and production;
- * the dissemination of knowledge about sustainable development, ecosystem-based approaches, and environmental safety;
- * preparation for Ukraine's recovery based on principles of sustainability.



Karazin Students Planted Magnolias in the University Botanical Garden



Planting magnolias in the Karazin University botanical garden:

- * promotes environmental awareness among youth and the community,
- * demonstrates responsible attitudes toward resources and biodiversity,
- * establishes a sustainable tradition of environmental stewardship in urban spaces.



On April 3rd, the administration, students, and faculty of Karazin University participated in an important initiative to preserve the diversity of the university botanical garden's plant life. This year, deciduous magnolias were planted — symbols of spring and love.

As noted by the Deputy Director of the botanical garden, Oleksandr Alyokhin, magnolias have been planted in the botanical garden over the past few decades. For many people, these plants are a symbol of Crimea, although they "feel good" in the Kharkiv region as well. Thus, more and more symbols of our South appear in Eastern Ukraine. According to him, the staff have hopes: in a few years, the botanical garden's territory will become even brighter and more colorful due to the planted plants!

The university's leadership expressed gratitude to the participants of this initiative and hopes that planting plants will become a tradition for the university. For the second year in a row, Karazinites have been meeting in the botanical garden in spring to enrich its flora. This year's event was supported by the Kharkiv Karazin University Foundation.

We believe that each planted plant is a step towards a greener, healthier future for all Kharkiv residents.

The Karazin University Botanical Garden is not only a place of relaxation and enjoyment for the city's residents but also a symbol of natural wealth and human responsibility towards it. Currently, the botanical garden's collections include over 8,000 species of plants.

<https://karazin.ua/en/news/karazintsi-vysadyly-mahnolii-v-nbsp-botanichnomu-sadu-univer/>

International Day of Environmental Education



The celebration of the International Day of Environmental Education at Karazin University is not only a symbolic event but also a concrete step toward achieving the Sustainable Development Goals, as it:

- * promotes environmental education,
- * fosters social responsibility,
- * prepares a generation of professionals capable of implementing sustainable production and consumption policies,
- * enhances environmental literacy as a foundation for a responsible lifestyle.



Every year on April 15th, many countries around the world observe International Day of Environmental Education.

Focused on the development of environmental education, this day emphasizes the importance of preserving our planet for future generations. Educational institutions, acting as catalysts for change, make their significant contributions and offer educational programs aimed at preparing experts in the field of ecology.

The Education and Research Institute of Ecology of Karazin University educates highly qualified specialists, stimulates research, promotes innovation, and develops strategies to achieve the UN Sustainable Development Goals in environmental conservation.

On the International Day of Environmental Education, we call for the collective effort to ensure proper attention to environmental education, which is one of the key elements on the path to a better future!

38 Years Since the Chernobyl Nuclear Disaster: The University Remembers



The reference to 2022 and the threats of a renewed disaster due to military actions in the Exclusion Zone** highlights that the lessons of Chornobyl have not yet been fully learned.

This once again underscores the need for:

- * responsible management of critical-risk infrastructure;
- * a sustainable approach to energy, safety, and civil protection.

This is not only a remembrance of the past, but also a reminder of our responsibility in the present and our duty to safeguard the future.



This day, 38 years ago, the largest disaster in the history of nuclear energy occurred. On April 26, 1986, the Chernobyl disaster claimed thousands of lives and left an irreparable mark on the environment.

We honor the memory of those who saved the world from the consequences of this terrible tragedy. The Chernobyl disaster liquidators sacrificed their health and lives to mitigate the catastrophe's scale and protect us all from the danger of radiation.

Today, Ukrainians not only commemorate the victims but also defend their country from new threats. Ukraine is once again at the forefront of ensuring safety for the entire world. We thank the workers of the exclusion zone who prevented a recurrence of the tragedy in 2022 during the Russian military advance. The enemy's provocations continue to endanger the world with the horrors of a radiation catastrophe.

The Chernobyl tragedy remains a permanent reminder of pain, anxiety, and lessons from which humanity must learn.

We express our sincere gratitude and pay tribute to those who risked their lives for the sake of others. This heroic act will never be forgotten.