

INFORMATION BULLETIN

Ukrainian Nuclear Society



YOUTH NUCLEAR FORUM OF UKRNS

DEAR COLLEAGUES,

The Ukrainian Nuclear Society presents to your attention the Information Bulletin, which was prepared at the invitation of the European Nuclear Society as a part of the ENS newsletter.

We're delighted to update our colleagues with the latest news from UkrNS, discussing our ongoing initiatives and projects. Additionally, we'll highlight the endeavors of our members who are actively engaged in the fields of nuclear energy, nuclear research in Ukraine.

We sincerely hope that the information about the UkrNS activity in the period from June to December 2024 is interesting and useful for you.

With best regards,
Ukrainian Nuclear Society

CONTENTS

NEWS AND EVENTS - 2 - 10

- Conference "Prospects for the Introduction of Innovations in Nuclear Energy" - 2
- New Separate Subdivisions of the NGO "UkrNS"- 3
- Participation in the events of the ENS - 4
- Participation in the I4N Contest - 5
- Participation in the Nurecab Project and in the NPHyCo hydrogen Project - 6
- Youth Nuclear Forum of UkrNS - 7
- Regional BSWN Conference - 8
- Meeting of the Scientific and Analytical Section - 9
- Participation in the International Nuclear Energy Conference in Bulgaria - 9
- Conference "Problems of modern nuclear energy". Invitation to participate - 10
- Journalism Contest "Nuclear Energy of Ukraine: Yesterday, Today, Tomorrow" - 10

INFORMATIONAL-EDUCATIONAL ACTIVITIES - 11

- Summer School of Nuclear Physics in V.N. Karazin Kharkiv National University - 11
- The Summer Internship for Students of V.N. Karazin Kharkiv National University - 12
- An e-guide "Path to a Career in the Nuclear Industry" - 12
- Events for Schoolchildren - 13

SPORTS AND CHARITY EVENTS FOR NUCLEAR INDUSTRY WORKERS - 14

THE VI INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE “PROSPECTS FOR THE INTRODUCTION OF INNOVATIONS IN NUCLEAR ENERGY”



On September 26-27, 2024, the VI International Scientific and Technical Conference “Prospects for the Introduction of Innovations in Nuclear Energy” took place in the Grand Conference Hall of the National Academy of Sciences of Ukraine. The event was organized by the Ukrainian Nuclear Society, the Institute for Safety Problems of Nuclear Power Plants of the NAS of Ukraine, and the Council of Young Scientists under the Department of Energy and Energy Technologies of the NAS of Ukraine.

For several years, the conference has been held under challenging conditions due to the ongoing war in Ukraine. Despite this, it remains one of the few offline events that attract significant interest and gather a large number of leading specialists, scientists, and representatives from the nuclear and related industries.

This year, over 200 participants registered for the event, with about a hundred experts actively contributing to its organization and execution. The conference also received strong support

from partners and sponsors: Energoatom, ENERGY SAFETY GROUP, Phoenix Contact Ukraine, Atomkompleksprylad, Impulse, Witkowitz Atomica, Synergoatom, and the Ukrainian Optical and Photonic Society.

During the conference, presentations were made covering various aspects of nuclear energy and related technologies. Among topics were the construction of new power units at Khmelnytskyi NPP using AP1000 technology, scientific research in the field of synthesizing new materials for nuclear reactors, improving methods for zoning areas around nuclear power plants, and exploring the potential for deploying small modular reactors and nuclear and hydrogen cogeneration in Ukraine as critical steps in the development of nuclear energy.

Other presentations addressed materials science and the implementation of modern information systems for managing the operation and maintenance of power units, as well as radiation monitoring. Special attention was given to safety issues, particularly probabilistic safety analysis and the justification for extending the operational life of existing nuclear power units.

The second day of the conference featured two panel sessions where experts presented their work on nuclear power plant safety, new materials and technologies, spent nuclear fuel management, cybersecurity, workforce training for the industry, and more. As is tradition, the conference also hosted an expert discussion focused on the operation and development of nuclear energy in the face of challenges posed by Russian aggression.

More details can be found at the following link:
<https://bit.ly/4eRHJ1P>

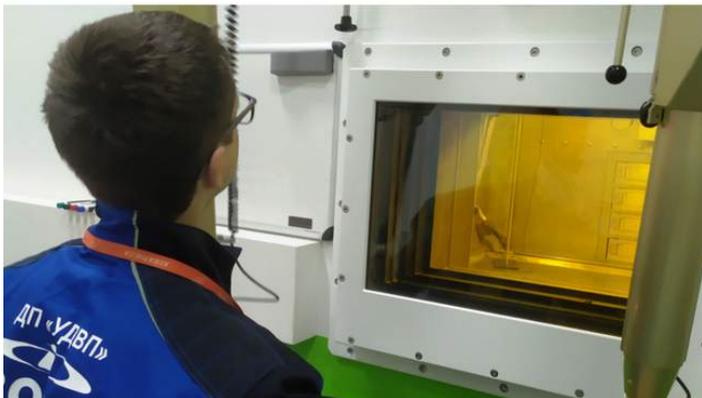


NEW SEPARATE SUBDIVISIONS OF THE NGO "UKRNS"



"IZOTOP"

A NEW SEPARATE SUBDIVISION OF THE UKRNS



The new regional branch of the UkrNS named "Isotope"

On October 29, 2024, the founding meeting of the members of the Ukrainian Nuclear Society (UkrNS) was held at SE "USIE IZOTOP", during which the decision was made to establish a new regional branch of the Society named "Isotope."

About SE "USIE IZOTOP"

SE "USIE IZOTOP" is a state enterprise specializing in the supply of radioisotope products and equipment utilizing radioactive materials. The enterprise's main areas of activity include: Supplying and distributing radiopharmaceuticals; Providing sources of ionizing radiation for medical and industrial purposes; Offering services for the installation, dismantling, and recharging of radioisotope equipment; Managing radioactive materials throughout their entire lifecycle.

SE "USIE IZOTOP" is a key partner in international projects supported by the U.S. Government through the U.S. Department of Energy and the International Atomic Energy Agency (IAEA). The enterprise actively promotes the implementation of the highest standards in nuclear and radiation safety.

Participation in International Projects

SE "USIE IZOTOP" is engaged in initiatives aimed at improving the management of ionizing radiation sources (IRS) in Ukraine. These projects include: Enhancing systems for accounting, storage, and physical protection of both spent and operational IRS; Introducing advanced technologies for the safe storage and disposal of IRS; Providing professional training for personnel working with radioactive materials; Creating conditions to mitigate potential risks associated with the use of ionizing radiation sources.

The new regional branch of the UkrNS at the "Atomproektengineering" division of JCS NNEGC "Energoatom"

On June 14, 2024, the founding meeting of the members of the NGO "Ukrainian Nuclear Society" was held at the "Atomproektengineering" branch of JCS NNEGC "Energoatom". The meeting was attended by 5 members of the Society. During the meeting, a decision was made to establish a separate division. The purpose of the activity of the "Atomproektengineering" division is to provide engineering support for the design of new nuclear installations, develop and supply equipment for new installations, organize construction, installation, and commissioning work, and manage the decommissioning of nuclear installations.

THE BOARD MEETING OF THE UKRAINIAN NUCLEAR SOCIETY

On December 6, 2024, a meeting of the Board of the Ukrainian Nuclear Society (UkrNS) was held. The meeting focused on summarizing the organization's activities for 2024 and outlining the Society's plans for the upcoming year.



PARTICIPATION IN THE GENERAL ASSEMBLY OF THE EUROPEAN NUCLEAR SOCIETY

On December 12, 2024, the General Assembly of the European Nuclear Society (ENS) took place. The event was held in a hybrid format – both in-person at the ENS office in Brussels and online.

As a full member of ENS, the Ukrainian Nuclear Society (UkrNS) participated in the event within its designated quota. Representatives of the UkrNS actively engaged in discussions on key agenda items and participated in voting processes.

The Assembly addressed both statutory and non-statutory issues. The main topics included:

- The ENS President's report, including updates on memoranda and agreements with European and international organizations;
- Financial results for 2024 and the approval of the preliminary budget for 2025;
- Elections of new members to the ENS Board of Directors;
- Activity reports on ENS key projects, such as N4C, COP 29, SMR Industrial Alliance, ENEN2Plus, and conferences and communication initiatives.

A significant decision of the General Assembly was the unanimous extension of the April 2022 ENS Board's resolution to suspend the membership of all companies and enterprises from Russia and Belarus for an additional year.



MEMBER OF THE ENS
BOARD OF DIRECTORS

Danylo Lavrenov
Ukraine



This year, Danylo Lavrenov, Executive Secretary of the Ukrainian Nuclear Society, was elected to the ENS Board of Directors. The Board, elected every two years, oversees the Society's most critical projects.

The inclusion of a Ukrainian representative on the Board strengthens international collaboration and enhances the promotion of Ukrainian initiatives and projects in the nuclear sector on a global stage.

The Ukrainian Nuclear Society highly values its participation in ENS activities, which opens new opportunities for Ukraine's integration into the international nuclear community.

THE MEMBER OF THE UKRNS PYLYP KUZNETSOV TOOK PART IN A MEETING OF THE HIGHER SCIENTIFIC COUNCIL OF THE EUROPEAN NUCLEAR SOCIETY



Pylyp Kuznetsov, Director of the Educational and Research Institute "Faculty of Physics and Technology" at and a member of the Ukrainian Nuclear Society, has been elected to the High Scientific Council of the European Nuclear Society.

Pylyp Kuznetsov's candidacy was nominated by the Ukrainian Nuclear Society to represent both the NGO and Ukraine in this prestigious scientific body of the European nuclear community. He holds a PhD in physics and mathematics in the field of nuclear physics, elementary particles, and high energies. He is an Associate Professor of the O.I. Akhiezer Department of Nuclear and High Energy Physics,

Director of the Educational and Research Institute "Faculty of Physics and Technology," and a member of the Academic Council of V.N. Karazin Kharkiv National University.

As a member of the UkrNS Pylyp Kuznetsov actively participates in organizing and conducting scientific projects and activities of the Society, as well as educational and career guidance initiatives for young people and international cooperation.

On November 05-06, 2024, Pylyp Kuznetsov took part in a meeting of the Higher Scientific Council of the ENS. During the meeting the Council members heard out the reports of five finalists of the HSC PhD Award 2024, discussed of position papers, in particular on long-term operation of nuclear power plants and extension of their lifetime, as well as on the development of nuclear medicine, in particular the use of radiopharmaceuticals and current challenges and limitations in their development and use.

PARTICIPATION IN THE FINAL OF THE EUROPEAN "INNOVATIONS FOR NUCLEAR"

A participant in the national "Nuclear Innovators" competition held by the Ukrainian Nuclear Society in the spring of 2024 and a representative of the Rivne NPP Eduard Omelchuk took part in the finals of the Innovations for Nuclear (I4N) Europe competition, held on June 27, 2024, during the International Forum "Sustainable Nuclear Innovations" in Sofia, Bulgaria.

In particular, such comprehensive three-dimensional models of the power unit could be used on a permanent basis for conducting pre-instruction briefings for contractors and repair personnel, onboarding new employees, training and exercises for fire-rescue teams, tracking equipment defects, and more.



The winners of this year's I4N Europe competition are a team from Germany with their project "Depleted Uranium for Green Chemistry", with which they will represent Europe at the global innovation competition during the International Youth Nuclear Congress in Abu Dhabi, UAE, in the fall of 2024. The team of Spain and France took the second and third places.

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THE UKRAINIAN NUCLEAR SOCIETY HAS JOINED THE NURECAB PROJECT WITHIN THE EURATOM RESEARCH AND TRAINING PROGRAMME



The aim of the Nurecab project (“EU-UA Nuclear Research and Education Capacity Building”) is to implement measures to support nuclear education in Ukraine and integrate the Ukrainian scientific community into the Euratom Research and Training Programme.

The Ukrainian Nuclear Society has become one of the partners of the consortium responsible for the project, which was launched under the Euratom Work Programme for 2023–2025.

On September 5-6, 2024, the project’s kick-off meeting was held in Kyiv, attended by representatives of the NURECAB consortium, the European Commission’s Euratom Programme, the Joint Research Centre of the European Commission, the Ministry of Education and Science of Ukraine, the Horizon Europe Office in Ukraine, the European Nuclear Society, the European Nuclear Education Network, NNEGC “Energoatom”, the Ukrainian Nuclear Society (Ukryat), as well as leading Ukrainian universities and research centers.

During the open session of the event, representatives of the consortium coordinator and partners presented the project implementation plan and held internal discussions focused on specific work packages.

As a result of the kick-off meeting, joint efforts were made to implement the plans and achieve the goals of the first year of the NURECAB project, as well as to resolve the project’s administrative matters.

RESEARCH ON THE DEVELOPMENT OF HYDROGEN ENERGY IN UKRAINE: NPHYCO HYDROGEN PROJECT

Ukrainian Nuclear Society Joins the NPHyCo Hydrogen Project. The Ukrainian Nuclear Society has been invited by its partner company Energy Safety Group, a participant in the NPHyCo hydrogen project, to take part in a study aimed at assessing public opinion on this promising direction in the energy sector in Ukraine and globally.

About the Project

NPHyCo is a European Union research project dedicated to hydrogen production using nuclear energy. The project is funded under the Euratom Research and Training Program (2021-2025), focusing on nuclear research and innovation. The key objectives of the project include evaluating the feasibility of hydrogen production near operational nuclear power plants, identifying potential locations for hydrogen facilities, and assessing the added value of such initiatives.

We invite everyone to participate in a survey as part of the research on the development of hydrogen energy in Ukraine and the implementation of hydrogen technologies at nuclear power plants.

PLEASE COMPLETE THE FORM VIA THE FOLLOWING LINK:

<https://bit.ly/40cMWLP>

YOUTH NUCLEAR FORUM OF UKRNS

From June 28 to 30, the Rivne NPP site hosted the first Youth Nuclear Forum, organized by the Ukrainian Nuclear Society with the support of the primary trade union organization of JCS NNEGC "Energoatom" and the Rivne NPP branch, as well as financial support from Energy Safety Group and the Atom Trade Union of Ukraine. The event gathered over 35 young professionals, scientists, and specialists from Ukraine's nuclear industry.

The aim of the forum was to unite young professionals for networking, exchanging current ideas regarding Ukraine's nuclear industry, and engaging young specialists in discussions on pressing issues.



One of the main and most engaging activities of the forum was a case study project competition, prepared in advance based on tasks set by the organizers. The tasks focused on topics such as the efficient development of nuclear energy in Ukraine, the potential construction of small modular reactors (SMRs) or large power units like the AP 1000 at existing nuclear power plants, the restoration of the Zaporizhzhia NPP after its de-occupation, and strategies for reintegrating uninhabited satellite towns of planned but unbuilt nuclear facilities into Ukraine's economic and energy infrastructure.

The forum participants were divided into four teams, each of which collaborated with a mentor—an industry expert who assisted the teams in preparing to solve the tasks. Two weeks prior to the forum, the teams worked on ideas for their project presentations, which were further refined during a training session upon their arrival at the forum and then presented to the jury on the second day of the event. The teams' presentations and reports were of exceptionally high quality, and all projects were highly praised by the competition jury.



THE VIDEO ABOUT UKRNS YOUTH NUCLEAR FORUM (UA)



REGIONAL BLACK SEA WOMEN IN NUCLEAR NETWORK (BSWN) CONFERENCE



Representatives of the Ukrainian Nuclear Society participated in the First Regional Black Sea Women in Nuclear Network (BSWN) Conference.

The first BSWN Regional Conference "Empowering Women in Nuclear - We All Can Do It!", took place on November 5-6, 2024, at Ovidius University in Constanța, Romania. The conference was organized in collaboration with Ovidius University and the James Martin Center for Nonproliferation Studies (CNS) at the Middlebury Institute of International Studies.

The conference aimed to promote global principles of nuclear security and gender equality, foster mentorship in the field, support regional nuclear security research, and ensure the peaceful development of the nuclear industry. Key topics included innovative nuclear technologies, the development of small modular reactors, nuclear safety culture, training young specialists, and making the nuclear sector more appealing to young people through innovations in nuclear education. Presentations and discussions highlighted nuclear security challenges in the current context, including the impact of military actions in Ukraine, as well as the fight against disinformation and propaganda targeting the nuclear sector.

Over 100 participants from more than 15 countries attended this year's BSWN Conference, including students of relevant specialties, representatives from industry organizations, regulatory bodies, national operators, and universities.

At the invitation of the organizers, representatives of the women's section of the Ukrainian Nuclear Society delivered presentations. Tetiana Zakrevska, Head of the separate division of the UkrNS,

established on the basis of the branch of "SS "Atomprojectengineering", Head of the licensing division, design and technical management department SS "Atomprojectengineering" Joint Stock Company "NNEGC "Energoatom", spoke on the panel New Technologies: Opportunities and Challenges for the Nuclear Sector, discussing Atomprojectengineering's activities and new nuclear projects in Ukraine, highlighting the role of female specialists.

In the panel Challenges and Opportunities for Women in Nuclear Energy in the Black Sea Region, Khrystyna Lylak, UkrNS Communications Manager, presented the activities of the UkrNS women's section and the implementation of UkrNS's Gender Equality Plan.

Alongside the UkrNS representatives, delegates from other Ukrainian nuclear organizations and educational institutions also participated, including NNEGC Енергоатом, the Institute for Nuclear Research of the National Academy of Sciences of Ukraine, the Department of Nuclear Power Plants and Engineering Thermophysics at the National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute, the Department of Nuclear Power Plants at Odesa Polytechnic National University, and Odesa Center for Nonproliferation (OdcNP), among others.



REPRESENTATIVES OF THE UKRNS PARTICIPATED IN THE ANNUAL INTERNATIONAL NUCLEAR ENERGY CONFERENCE IN BULGARIA

Scientists from Odesa Polytechnic National University, representatives of the Odesa branch of the Ukrainian Nuclear Society, participated in the annual international nuclear energy conference in Bulgaria. The event took place from October 1 to 4, 2024, in the city of Burgas, Bulgaria. The conference "Nuclear Energy for People" organized under the patronage of the Bulgarian Nuclear Society, serves as a key platform for the exchange of knowledge among scientists, experts, researchers, and students working in nuclear technology and atomic energy from different countries.

The conference aims to promote the development of new educational initiatives, engage young professionals in nuclear engineering, address current issues such as nuclear power plant safety, safety culture, resource management, decommissioning of nuclear power plants, and the impact of radiation on the environment, as well as strengthen international cooperation in nuclear energy.

Among the participants were representatives from Odesa Polytechnic National University's Department of Nuclear Power Plants: Professor Igor Leonidovich Kozlov, Doctor of Technical Sciences, and Senior Lecturer Viktor Mykolayovych Kolykhanov.



Ukrainian scientists presented papers on "Natural Circulation in the Primary Circuit of Small Modular Reactors" and "The Probability of Neutron Diffusion Flow Leakage Through a Flat Boundary."

MEETING OF THE SCIENTIFIC AND ANALYTICAL SECTION OF UKRNS

On June 18, 2024, a meeting of the Scientific and Analytical Section of the Ukrainian Nuclear Society was held, chaired by Dr. Konstantin Simeiko, Doctor of Technical Sciences, Professor, Acting Scientific Secretary, and Head of the Laboratory at the Institute for Nuclear Power Plant Safety Problems of the National Academy of Sciences of Ukraine.

In addition to section members, the winners of the "Atomic Innovators-2024" scientific project competition also participated in the event. The participants discussed recent events and activities implemented by the NGO "UkrNS" in the field of scientific work, as well as plans for the future.

In particular, they discussed the upcoming annual International Conference "Prospects for the Implementation of Innovations in Nuclear Energy," scheduled for fall 2024.



Additionally, the participants reviewed the technical and economic study of the impact of martial law in Ukraine on innovation, scientific research and development in the nuclear energy sector, and workforce training in nuclear-related specialties. This study involves the Ukrainian Nuclear Society, the Institute for Nuclear Power Plant Safety Problems of the NAS of Ukraine, and other academic institutions and higher education establishments in the sector.

THE II INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE “PROBLEMS OF MODERN NUCLEAR ENERGY”-2025

On April 16-18, 2025, the V.M. Voevodin International Scientific and Technical Conference “Problems of modern nuclear energy” will be held in the city of Kharkiv.

Organizers of the event: Ukrainian Nuclear Society, National Science Center Kharkiv Institute of Physics and Technology NAS of Ukraine and V. N. Karazin Kharkiv National University.

Within the framework of the conference, the following questions will be considered:

- Development of the nuclear energy complex of Ukraine
- Materials for nuclear energy
- Increasing the level of safety and efficiency of NPP operation
- Lifetime extension of NPPs and management of life cycle and ageing at
- nuclear power plants
- Nuclear, radiation and environmental safety in the handling of RAW and SNF
- Problems of thermonuclear fusion
- Work with the public in the nuclear industry

The working languages of the conference are Ukrainian and English.

Remote participation will be available.

The organizing and program committee contact:

pmne2016@ukr.net

JOURNALISM CONTEST "NUCLEAR ENERGY OF UKRAINE: YESTERDAY, TODAY, TOMORROW"

In June 2024, to mark Journalist's Day, the Ukrainian Nuclear Society and Energoatom announced the launch of a contest for journalists and aspiring media professionals titled “Nuclear Energy of Ukraine: Yesterday, Today, Tomorrow”. The contest aimed to encourage media representatives to engage in well-founded discussions and exchange opinions on nuclear energy topics.

Journalists, bloggers, and students of journalism faculties were invited to participate by submitting analytical articles or video materials about the operations and future prospects of nuclear energy in Ukraine. Among all the entries reviewed by the jury, four outstanding works were selected.

II INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE NAMED AFTER V. VOYEVODIN

PROBLEMS OF MODERN NUCLEAR POWER

Kharkiv, Ukraine
V. N. Karazin National University
«YermilovCentre»

Kharkiv, Ukraine **16-18** APRIL, 2025

REGISTRATION FORM
REMOTE PARTICIPATION WILL BE AVAILABLE

Submission Deadline: MARCH 1, 2025

Logos: XFTI, Ukrainian Nuclear Society, V. N. Karazin National University, kipt.kharkov.ua, ukrms.org

THE DEADLINE FOR SUBMITTING APPLICATIONS FOR PARTICIPATION IS UNTIL MARCH 1, 2025 BY THE LINK:

APPLICATION FORM

MORE INFORMATION ABOUT THE CONFERENCE

УКРАЇНСЬКЕ ЯДЕРНЕ ТОВАРИСТВО | ЕНЕРГОАТОМ

Визначено переможців конкурсу

«Атомна енергетика України: вчора, сьогодні, завтра»

SUMMER SCHOOL OF NUCLEAR PHYSICS IN V.N. KARAZIN KHARKIV NATIONAL UNIVERSITY



Several activities were also conducted by the Ukrainian Nuclear Society as part of the school.

In particular, participants attended a lecture on "The Current State and Prospects of Nuclear Industry Development in Ukraine and the World," and took part in an interactive game organized by the UkrNS in the city of Yuzhnoukrainsk, titled "How a Nuclear Power Plant Works." In this game, students competed in activities simulating real industrial processes at nuclear power plants.

From August 19 to 23, 2024, the "Summer School of Nuclear Physics" for high school students was held in Kharkiv.

The event was organized by the Educational and Research Institute "Faculty of Physics and Technology" of V.N. Karazin Kharkiv National University, with the support of the European Nuclear Education Network (ENEN).

The program included:

- Fascinating lectures by leading Ukrainian scientists;
- A workshop on nuclear medicine;
- Excursions to laboratories and the Nuclear Physics Museum;
- Interactive thematic games and valuable gifts from the organizers.



A PARTICIPATION IN THE SUMMER INTERNSHIP FOR STUDENTS OF V.N. KARAZIN KHARKIV NATIONAL UNIVERSITY

As part of its educational and outreach activities, the Ukrainian Nuclear Society collaborates with leading higher education institutions that train specialists for the nuclear and related industries. This includes facilitating the involvement of industry experts in the educational process of specialized universities, such as V.N. Karazin Kharkiv National University.

On July 15, 2024, at the invitation of V.N. Karazin Kharkiv National University, a webinar was held as part of the summer internship for senior students of the Faculty of Physics and Technology. The webinar, titled "Personnel Training for Nuclear Power Enterprises and HR Management at Rivne Nuclear Power Plant," introduced students and faculty members, particularly from the Department of Reactor Materials and Physical Technologies, to the current state of nuclear energy in Ukraine and worldwide, prospects for industry development, and career opportunities at the Rivne NPP.

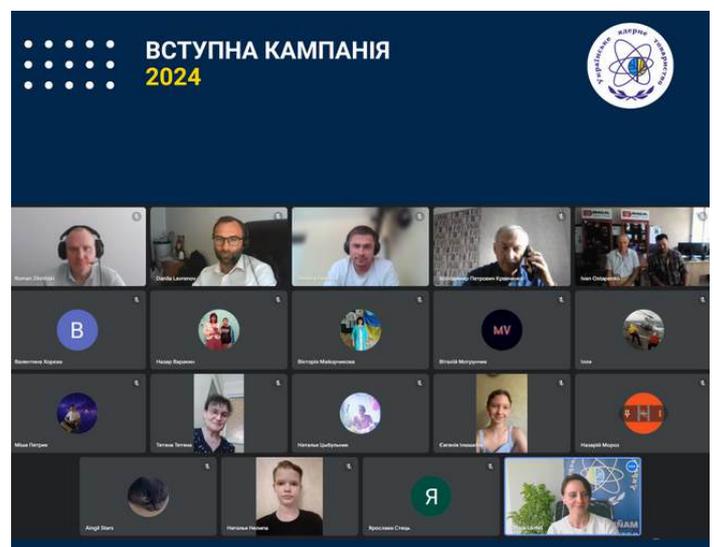


THE PATH TO A CAREER IN THE NUCLEAR INDUSTRY: A GUIDE FOR PROSPECTIVE STUDENTS

As part of the 2024 admission campaign Ukrainian Nuclear Society together with JCS NNEGС "Energoatom" have created and presented an electronic guide for prospective students "The Path to a Career in the Nuclear Industry". This electronic publication is a guide for applicants to explore the specialties and professions in demand within the nuclear energy sector. The guide is developed to promote technical specialties and to attract young people to pursue education, employment, and professional careers in Ukraine's nuclear industry. Future students can find valuable information to help them choose a specialty and study direction, learn about higher education institutions, and explore employment opportunities after graduation, as well as receive recommendations for building a career in the nuclear industry of Ukraine.

The UkrNS hosted a webinar titled *The Path to a Career in the Nuclear Industry* dedicated to the 2024 admissions campaign. The goal of the webinar was to introduce the audience to educational opportunities in areas that are in high demand within the nuclear sector, as well as future employment prospects at enterprises in Ukraine's nuclear energy sector. In addition to representatives from UkrNS, the webinar featured speakers from two leading specialized educational institutions - Odessa Polytechnic University and Igor Sikorsky Kyiv Polytechnic Institute - as well as from the employer company Energoatom.

YOU CAN VIEW THE GUIDE HERE (UA)



EVENTS FOR SCHOOLCHILDREN: DEEPENING KNOWLEDGE OF NUCLEAR ENERGY

The purpose of the events is to introduce young people to nuclear energy, promote awareness of the nuclear industry, and provide career guidance for choosing future professions in this field.

On September 5, 2024, in celebration of the new school year, the Ukrainian Nuclear Society, together with JCS NNEGC "Energoatom," organized an educational event for Kyiv school students. Specialists from JCS NNEGC "Energoatom" showcased the activities of Ukraine's leading energy company, the operator of active nuclear power plants, and discussed the current status and future prospects of the industry. With the help of virtual reality glasses and nuclear power plant models, the students were able to take a virtual tour of one of Ukraine's nuclear power plants.

A particular highlight of the event was the interactive game "How a NPP Works," developed by the Ukrainian Nuclear Society's branch in Yuzhnoukrainsk. The game aims to build trust in the peaceful use of nuclear energy and inform participants about key processes in electricity generation at nuclear power plants. Participants completed tasks simulating real stages of NPP operations, such as "NPP Construction," "Pipeline Installation," "Nuclear Fuel Loading," "Spin the Turbine," and "Connecting to the Power Grid."

During the event, participating teams receive brief information from the presenters on each activity, such as how nuclear power plants are built, methods for connecting and securing pipelines at a nuclear power plant, the process of loading nuclear fuel, turbine operations and the schemes and types of open switchgear at nuclear power plants. Afterward, they complete small practical tasks for each block of information as quickly as possible. For instance, in the game "Nuclear Fuel Loading," participants use models to simulate the process of loading mock fuel assemblies (TVELs) into a model reactor. Through coordinated team actions, participants control the handling and release of the "fuel assembly." After completing the mini-games, teams undergo a short test on the event's topics.



In addition to Kyiv, such events, including the "How a Nuclear Power Plant Works" games, have already been held for schoolchildren in Yuzhnoukrainsk, the satellite city of the South Ukraine NPP and in Kharkiv.

SPORTS AND CHARITY EVENTS FOR NUCLEAR INDUSTRY WORKERS

The Ukrainian Nuclear Society organizes and participates in various sports and charity events aimed at promoting sports within the nuclear community, encouraging a healthy lifestyle, and supporting the servicemen of the Armed Forces of Ukraine.

In the summer of 2024, several important events took place, benefiting both nuclear industry athletes and charitable causes. Among them were charity sports event WORKOUT in Yzhnoukrainsk, Open Water Swimming Tournament by the Ukrainian Swimming Association "MASTERS" and the Charity Energy Sprint Triathlon at Rivne NPP, charity competitions on the occasion of the Independence Day of Ukraine AtomRace 2024 in Netishyn - the satellite city of the Khmelnytsky NPP and others.

