

COLLECTION OF SCIENTIFIC PAPERS WITH PROCEEDINGS OF THE

# VI INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE

«Education and science of today: intersectoral  
issues and development of sciences»



**Cambridge**  
United Kingdom



**March 29**  
2024



**Cambridge Data Science LTD &  
NGO European Scientific Platform**



ISBN (online) 978-1-8380557-3-8  
ISBN (print) 978-617-8312-02-2

DOI 10.36074/logos-29.03.2024

59

Cambridge Data Science LTD | European Scientific Platform



COLLECTION OF SCIENTIFIC PAPERS

WITH PROCEEDINGS OF THE  
VI INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE

**«EDUCATION AND SCIENCE OF  
TODAY: INTERSECTORAL ISSUES  
AND DEVELOPMENT OF SCIENCES»**



Cambridge,  
United Kingdom



March 29,  
2024



United Kingdom  
«P.C. Publishing House»

Ukraine  
«UKRLOGOS Group»

**2024**

UDC 082:001  
E 25



Chairman of the Organizing Committee: Goldenblat M.<sup>1</sup>  
Deputy Chairman of the Organizing Committee: Gambelton B.<sup>2</sup>

**The organization on behalf of which the book is published:**

<sup>1</sup> NGO European Scientific Platform, Ukraine

<sup>2</sup> Cambridge Data Science LTD, United Kingdom

Responsible for the layout: Bilous T.      Responsible designer: Bondarenko I.

**Recommended for publication by the Academic Council of the Institute of Scientific and Technical Integration and Cooperation. Protocol N° 29 from March 28<sup>th</sup>, 2024.**

---

E 25      **Education and science of today: intersectoral issues and development of sciences:** Collection of scientific papers «ΛΟΓΟΣ» with Proceedings of the VI International Scientific and Practical Conference, Cambridge, March 29, 2024. Cambridge-Vinnytsia: P.C. Publishing House & UKRLOGOS Group LLC, 2024.

ISBN 978-617-8312-02-2

«UKRLOGOS Group» LLC, Ukraine

ISBN 978-1-8380557-3-8 (PDF)

«P.C. Publishing House», United Kingdom

DOI 10.36074/logos-29.03.2024

Papers of participants of the VI International Scientific and Practical Conference «Education and science of today: intersectoral issues and development of sciences», held in Cambridge, March 29, 2024, are presented in the collection of scientific papers.

---



The conference is certified by Euro Science Certification Group  
(**Certificate N° 22513 dated January 7, 2024**);

The conference is also included in the catalog of International Scientific Conferences by ResearchBib; and registered by State Scientific Institution «Ukrainian institute of scientific and technical expertise and information» in the database «Scientific and technical events of Ukraine» (**Certificate N° 72 dated 5 January 2024**).



*Bibliographic descriptions of the conference proceedings are indexed by Google Scholar, CrossRef, OpenAIRE, OUCI, Scilit, Semantic Scholar, Mendeley, WorldCat and ORCID.*

**UDC 082:001**

ISBN 978-617-8312-02-2  
ISBN 978-1-8380557-3-8 (PDF)

© Participants of the conference, 2024  
© UKRLOGOS Group LLC, 2024  
© Cambridge Data Science LTD, 2024  
© European Scientific Platform, 2024  
© P.C. Publishing House, 2024

CONTENT

**ABSTRACTS**

“FROZEN CONFLICTS” IN EUROPE IN THE CONTEXT OF THE IMPLEMENTATION OF THE REVANCHIST RUSSIAN GEOPOLITICAL STRATEGY  
**Tychyna B.** .....137

АКТУАЛЬНІ ПИТАННЯ ЩОДО ПІДВИЩЕННЯ ЕФЕКТИВНОСТІ ІНЖЕНЕРНОЇ ПІДТРИМКИ БЕЗПЕКИ ЗАСТОСУВАННЯ ВІЙСЬК ПІД ЧАС ВІДСІЧІ ЗБРОЙНОЇ АГРЕСІЇ РОСІЙСЬКОЇ ФЕДЕРАЦІЇ ПРОТИ УКРАЇНИ  
**Малахов С.С., Загурський А.С.** .....141

ВПЛИВ ВЕЛИКОЇ БРИТАНІЇ НА МІЖНАРОДНУ ВІЙСЬКОВО-ТЕХНІЧНУ ПІДТРИМКУ УКРАЇНИ НА ПЕРШОМУ ЕТАПІ РОСІЙСЬКО-УКРАЇНСЬКОЇ ВІЙНИ У 2022 РОЦІ  
**Остапчук О.П.** .....144

ДЕЗОРГАНІЗАЦІЯ СУЧАСНИХ СИСТЕМ УПРАВЛІННЯ ПРОТИВНИКА В ХОДІ ГІБРИДНОГО ПРОТИСТОЯННЯ  
**Підгородецький М.М., Салій О.Я.** .....148

ПРОБЛЕМНІ ПИТАННЯ СИСТЕМИ ПОПЕРЕДЖЕННЯ І ОПОВІЩЕННЯ ПРО ХІМІЧНУ БІОЛОГІЧНУ РАДІОЛОГІЧНУ ЯДЕРНУ ЗАГРОЗУ (ІНЦИДЕНТ)  
**Романюк В.П., Ніколюк В.Д.** .....152

СУКУПНІСТЬ ПОКАЗНИКІВ ОЦІНЮВАННЯ ЕФЕКТИВНОСТІ СИСТЕМИ ВІДНОВЛЕННЯ ОЗБРОЄННЯ ТА ВІЙСЬКОВОЇ ТЕХНІКИ НА ОСНОВІ МЕТОДУ ПОБУДОВИ «ДЕРЕВА ЦІЛЕЙ»  
**Рахманій О.М.** .....156

**SECTION X.  
FIRE AND CIVIL SAFETY**

**ARTICLES**

АКУСТИЧНИЙ СТЕНД ДЛЯ ЛАБОРАТОРНИХ ДОСЛІДЖЕНЬ ДАТЧИКІВ ОХОРОННОЇ ТА ПОЖЕЖНОЇ СИГНАЛІЗАЦІЇ ОБ'ЄКТІВ КРИТИЧНОЇ ІНФРАСТРУКТУРИ  
**Азаренко О.В., Гончаренко Ю.Ю., Дівізінюк М.М., Мирошник О.М., Поляков С.В., Фаррахов О.В.** .....160

**ABSTRACTS**

EXPERIENCE IN THE FIELD OF LABOUR PROTECTION ON THE EXAMPLE OF THE COUNTRIES OF THE EUROPEAN UNION  
**Polukarov Y., Zemlyanska O., Polukarov O., Prakhovnik N., Kovtun A., Kalinovskiy O.** .....166

**DOI 10.36074/logos-29.03.2024.039**

## EXPERIENCE IN THE FIELD OF LABOUR PROTECTION ON THE EXAMPLE OF THE COUNTRIES OF THE EUROPEAN UNION

**Yury Polukarov<sup>1</sup>, Olena Zemlyanska<sup>2</sup>, Oleksiy Polukarov<sup>3</sup>, Natalya Prakhovnik<sup>4</sup>,  
Andrii Kovtun<sup>5</sup>, Kalinovskiyi Oleksandr<sup>6</sup>**

---

**1.** Candidate of technical Sciences, associate Professor, ER IEE  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*  
**ORCID ID: 0000-0002-6261-3991**

**2.** Senior lecturer, ER IEE  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*  
**ORCID ID: 0000-0002-9608-3677**

**3.** Candidate of technical Sciences, associate Professor, ES IEE  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*  
**ORCID ID: 0000-0003-4260-0330**

**4.** Candidate of technical Sciences, associate Professor, ER IEE  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*  
**ORCID ID: 0000-0003-0821-2166**

**5.** Candidate of technical Sciences, senior lecturer, ER IEE  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*  
**ORCID ID: 0000-0003-4490-0484**

**6.** Candidate of higher education of IHF, group 21-LN  
*National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute», UKRAINE*

---

Compilation of information from different countries and exchange of experience in the field of occupational health and safety are key elements in ensuring the safety and health of workers around the world. In light of this, the analysis of individual issues of international experience in labour protection becomes extremely important for understanding best practices and implementing effective strategies in this area. We will consider various aspects of international experience in the field of labour protection, from the definition of international



**SECTION 10.**  
FIRE AND CIVIL SAFETY

standards to the assessment of their impact on the safety of workers and society as a whole. Careful investigation of these issues can help improve working conditions and reduce health risks at workplaces in all countries.

Such an analysis also helps to identify and understand the various challenges and obstacles that different countries face in occupational health and safety issues, and helps to develop strategies to overcome them. Implementation of international standards and best practices in the field of occupational health and safety is an important step towards creating safe and healthy working conditions for all employees. This can improve the quality of life of workers, increase productivity and reduce the costs associated with accidents at work and occupational diseases. We will consider the key aspects of the international experience in labour protection in order to provide information and data that can serve as a basis for further research and development of strategies in this important area.

The key aspects of international experience in the field of labour protection that need to be paid attention to are:

1. International standards and conventions developed by the International Labour Organization (ILO), especially the Occupational Safety and Health Convention and analysis of the impact of these documents on legislation in different countries [1].

2. The effectiveness of the implementation of international standards and recommendations on labour protection and their impact on the safety of workers.

3. Comparison of approaches to occupational health and safety issues in different countries and regions, including identification of differences in legislation, safety culture and accident statistics at work.

4. Analysis of specific studies carried out in specific industrial sectors or work environments where there are special risks and requirements for health and safety issues, such as construction, chemical production or agriculture.

5. Study of the influence of the latest technologies and innovative approaches on the safety and health of workers in different countries.

6. Consideration of the relationship between labour protection and the general state of public health, as well as the impact of labour protection on environmental stability and sustainable development.

It is noted that ensuring safety in the labour market has a higher priority than other aspects of socio-economic stability. However, in today's society, most people, feeling financial pressure and instability, pay more attention to job search and wages than to occupational health and safety issues. Solving these problems requires joint efforts of government bodies, public organizations and business. The creation of a system aimed at improving working conditions and the working

environment should become a key goal of effective policy in this area. Understanding the complexities and needs of modern society promotes awareness of the importance of proper labour protection as an important element of the country's socio-economic development [2].

There are many opportunities to improve the field of labour protection, and one of them is the study and application of international experience in practice, regulatory and legal activities. It is worth noting that foreign experience is quite valuable, as it helps not only in the careful study of specific issues of labour protection, but also in revealing the commitment of Western countries to priorities based primarily on the protection of the interests of working people.

Today, Ukraine requires improvement of the state of labour protection, which is possible only with an orientation to international experience in this field. In the international practice of labour protection, methods based on the implementation of a set of preventive measures aimed at minimizing industrial injuries and occupational diseases have been used for a long time [3].

All the countries of the European Union individually place a clear emphasis on the importance of occupational health and safety. This is done due to the constant increase in labour protection requirements, which is prescribed at the level of regulatory standards for labour protection and strict control over their implementation [4]. This approach encourages the managers of enterprises to regularly modernize technological processes and equipment, which translates into an increase in the level of safety at workplaces. This was not least helped by the establishment of the The European Foundation for the Improvement of Living and Working Conditions, which is a tripartite agency of the European Union established in 1975. The main task of this organization is to provide a mechanism that contributes to the creation of an optimal policy in the social sphere, in particular, in matters of employment and work, in compliance with the requirements of Regulation (EU) 2019/127.

Thus, it can be concluded that Ukraine should focus on the experience of the countries of the European Union, which consistently show high efficiency in the field of regulation of both legislative and practical aspects of labour protection.

#### REFERENCES:

- [1] Лисенко, В. В. & Кузнецова, Л. В. (2020). Окремі питання міжнародного досвіду охорони праці. Наука про цивільний захист як шлях становлення молодих вчених. *Матеріали Всеукраїнської науково-практичної конференції курсантів і студентів (Черкаси: Черкаський інститут пожежної безпеки імені Героїв Чорнобиля НУЦЗ України)*, 236-237. URL: [http://edumns.org.ua/img/news/160/Zbirnik\\_tez\\_13.05.2020.pdf#page=236](http://edumns.org.ua/img/news/160/Zbirnik_tez_13.05.2020.pdf#page=236).

**SECTION 10.**

FIRE AND CIVIL SAFETY

- [2] Polukarov, Y., Zemlyanska, O., Kachynska, N., Prakhovnik, N., Polukarov, O. & Konishevskaya, O. (2024). Justification of the need to implement advanced technologies in the field of labour protection. *Débats scientifiques et orientations prospectives du développement scientifique: c avec des matériaux de la VI conférence scientifique et pratique internationale* (Paris, 1er Mars 2024). Paris-Vinnytsia: La Fedeltà & UKRLOGOS Group LLC, 122-125. <https://doi.org/10.36074/logos-01.03.2024.030>.
- [3] Івчук, Ю. Ю. (2021). Щодо питання наближення національного законодавства з охорони праці до міжнародних стандартів у сфері професійної безпеки, гігієни праці. *Актуальні проблеми права: теорія і практика*, (41), 11-20. <https://doi.org/10.33216/2218-5461-2021-41-1-11-20>.
- [4] Petrovska, S. A. & Petrovskyi, M. V. (2023). Analysis of the Ukrainian legislation on labour protection adaptation to the European Union acts. *Law and Safety*, 90(3), 44-57. <https://doi.org/10.32631/pb.2023.3.04>.