

**SCI-CONF.COM.UA**

**INNOVATIONS  
AND PROSPECTS  
IN MODERN SCIENCE**



**PROCEEDINGS OF II INTERNATIONAL  
SCIENTIFIC AND PRACTICAL CONFERENCE  
FEBRUARY 13-15, 2023**

**STOCKHOLM  
2023**

# **INNOVATIONS AND PROSPECTS IN MODERN SCIENCE**

Proceedings of II International Scientific and Practical Conference

Stockholm, Sweden

13-15 February 2023

**Stockholm, Sweden**

**2023**

## UDC 001.1

The 2<sup>nd</sup> International scientific and practical conference “Innovations and prospects in modern science” (February 13-15, 2023) SSPG Publish, Stockholm, Sweden. 2023. 481 p.

**ISBN 978-91-87224-02-7**

The recommended citation for this publication is:

*Ivanov I. Analysis of the phaunistic composition of Ukraine // Innovations and prospects in modern science. Proceedings of the 2nd International scientific and practical conference. SSPG Publish. Stockholm, Sweden. 2023. Pp. 21-27. URL: <https://sci-conf.com.ua/ii-mizhnarodna-naukovo-praktichna-konferentsiya-innovations-and-prospects-in-modern-science-13-15-02-2023-stokgolm-shvetsiya-arhiv/>.*

**Editor**

**Komarytskyy M.L.**

*Ph.D. in Economics, Associate Professor*

Collection of scientific articles published is the scientific and practical publication, which contains scientific articles of students, graduate students, Candidates and Doctors of Sciences, research workers and practitioners from Europe, Ukraine and from neighbouring countries and beyond. The articles contain the study, reflecting the processes and changes in the structure of modern science. The collection of scientific articles is for students, postgraduate students, doctoral candidates, teachers, researchers, practitioners and people interested in the trends of modern science development.

**e-mail:** [sweden@sci-conf.com.ua](mailto:sweden@sci-conf.com.ua)

**homepage:** <https://sci-conf.com.ua>

©2023 Scientific Publishing Center “Sci-conf.com.ua” ®

©2023 SSPG Publish ®

©2023 Authors of the articles

33.	<i>Малик Т. В., Набитович Г. В., Мацькович М. Р., Малик Л. Б.</i>	164
	МЕТОДИЧНІ АСПЕКТИ ОРГАНІЗАЦІЇ НАВЧАЛЬНОГО ПРОЦЕСУ СТУДЕНТІВ ЗАОЧНОЇ ФОРМИ НАВЧАННЯ	
34.	<i>Пристінський Р. В.</i>	172
	ПЕДАГОГІЧНІ УМОВИ ПІДВИЩЕННЯ ЕФЕКТИВНОСТІ ВИВЧЕННЯ ІНОЗЕМНОЇ МОВИ ДЛЯ ПІДГОТОВКИ МАЙБУТНІХ ОФІЦЕРІВ НАЦІОНАЛЬНОЇ ГВАРДІЇ УКРАЇНИ	
35.	<i>Романюк О. М.</i>	175
	МОВЛЕННЄВА КОМПЕТЕНТНІСТЬ ДОШКІЛЬНИКІВ	
36.	<i>Сілкова О. В.</i>	180
	ФОРМУВАННЯ ТА РОЗВИТОК ЛОГІЧНОЇ КОМПЕТЕНТНОСТІ ЗАСОБАМИ РОЗВ'ЯЗУВАННЯ ЛОГІЧНИХ ЗАДАЧ У ЗДОБУВАЧІВ МЕДИЧНИХ ЗАКЛАДІВ ВИЩОЇ ОСВІТИ	
37.	<i>Тимошук Г. В.</i>	188
	ПЕРЕВАГИ ТА НЕДОЛІКИ ВИКОРИСТАННЯ ТЕХНОЛОГІЇ PODCAST В ОСВІТНЬОМУ ПРОЦЕСІ	
38.	<i>Фрицька Л. І.</i>	192
	ВИХОВНИЙ ПОТЕНЦІАЛ ЗВИЧАЇВ І ТРАДИЦІЙ УКРАЇНСЬКОГО НАРОДУ НА ФОРМУВАННЯ НАЦІОНАЛЬНОЇ САМОІДЕНТИЧНОСТІ ЗДОБУВАЧІВ ОСВІТИ	
39.	<i>Цвілик С. Д., Шимкова І. В., Сінкевич О. П., Злагоднюк М. С.</i>	196
	СТАНОВЛЕННЯ Й РОЗВИТОК ХУДОЖНЬО-ГРАФІЧНОЇ КУЛЬТУРИ УЧНІВ СЕРЕДНЬОЇ ТА ПРОФЕСІЙНОЇ ОСВІТИ В НАВЧАННІ ТЕХНОЛОГІЙ	
40.	<i>Чубрей О. С., Григораши М. М.</i>	203
	АНАЛІЗ ОСВІТНІХ ПЛАТФОРМ ДЛЯ ДИСТАНЦІЙНОГО НАВЧАННЯ	
41.	<i>Шамич О. М., Іваннікова Г. В.</i>	209
	КОНТЕНТ-АНАЛІЗ ПРОФЕСІЙНОЇ РОБОТИ ТРЕНЕРІВ-ВИКЛАДАЧІВ З ФІЗИЧНОГО ВИХОВАННЯ ТА СПОРТИВНИХ ПЕДАГОГІВ	
<b>PSYCHOLOGICAL SCIENCES</b>		
42.	<i>Ovsyannikova Ya. O., Krasnokutsky M. I.</i>	223
	PSYCHOLOGICAL CAUSES OF ERRONEOUS ACTIONS OF ATHLETES IN FIREFIGHTING SPORTS	
43.	<i>Дрозд О. В., Комісарова А. М.</i>	229
	АНАЛІЗ СТАНУ ПРОБЛЕМИ ВПЛИВУ АРТ-ТЕРАПІЇ ЯК ПСИХОЛОГІЧНОЇ ДОПОМОГИ КРИЗОВИМ СІМ'ЯМ	
44.	<i>Дрозд О. В., Михайловська А. В.</i>	235
	ПСИХОЛОГІЧНІ ОСОБЛИВОСТІ ПРОЯВУ ЕМОЦІЙНОГО ІНТЕЛЕКТУ ПРАЦІВНИКАМИ ІТ-ІНДУСТРІЇ	
45.	<i>Лиманкіна А. І.</i>	241
	ОСОБЛИВОСТІ «Я-КОНЦЕПЦІЇ» СПІВЗАЛЕЖНОЇ ОСОБИСТОСТІ	

# PSYCHOLOGICAL SCIENCES

## PSYCHOLOGICAL CAUSES OF ERRONEOUS ACTIONS OF ATHLETES IN FIREFIGHTING SPORTS

**Ovsyannikova Yanina Oleksandrivna,**

Ph.D. in Psychology,  
Senior Research Fellow Research Laboratory  
of Extreme and Crisis Psychology,  
National University of Civil Protection of Ukraine

**Krasnokutsky Mykola Ivanovich,**

Ph.D. in Psychology, associate professor,  
Research Fellow Research Laboratory of Extreme and Crisis  
Psychology, National University of Civil Protection of Ukraine

**Introductions.** Currently, the problem of erroneous activity is the subject of many scientific psychological disciplines, such as engineering psychology, psychology of activity in special conditions, as well as sports psychology, especially this applies to extreme sports, where the price of a mistake can cost an athlete his life [1; 2; 3; 4]. In modern science, false action is understood as an element of activity that disrupts its purposeful flow and leads to an undesirable result for the active person [5; 6]. In other words, an erroneous action is associated with the termination or temporary interruption of activity. In competitive terms, these may be errors in the perception of information, decisions made, and the implementation of regulatory influences. Wrong actions are always based on incorrect, untimely or incomplete execution of operations [8].

Although wrongdoing is believed to be the cause of most events, a number of studies on wrongdoing problems make a strong case that even dangerous human actions and the undesirable results of that action are effects rather than causes of the event. They are the product of a series of events in which factors that influence purely psychologically are often the last and those that are the least controllable by elements

of adverse consequences [4; 5].

Based on the above, in the course of our research, we understand the erroneous actions of athletes in firefighting sports as an element of sports and professional activity that disrupts its purposeful course and leads to an undesirable result for the athlete.

**Aim.** The purpose of the study is the causes of erroneous actions in the sports activities of sportsmen of firefighting and applied sports of the State Emergency Service of Ukraine.

**To achieve this goal, the following tasks must be solved:**

- on the basis of an informational and analytical review, draw a conclusion about the methodology of analyzing athletes' erroneous actions from the point of view of psychological factors;

- to determine the main psychological factor of sportsmen's erroneous actions.

The research proposes to apply the expert survey method and the basic principles of psychology.

**Materials and methods.** The analysis of literary sources showed that, at the moment, the most studied erroneous actions of specialists of such a specific type of activity within the framework of the State Emergency Service of Ukraine, as diving formations of emergency and rescue units, are the most studied.

Domestic researchers indirectly studied erroneous actions within the framework of professional analysis of specialists of extreme type of activity. And erroneous actions were almost not considered within the framework of those forms and methods of professional and psychological training, which allow to carry out this training more effectively. Thus, the type of training is physical culture and sports, including fire-fighting and applied sports, which until today have not been studied in domestic science.

To this day, there are many types of various classifications regarding the explanation of the reasons for the occurrence of erroneous actions by specialists of an extreme type of activity. In recent years, the problem of erroneous actions of experts in extreme activities has received attention in the scientific studies of domestic

researchers: S.Yu. Lebedeva [9], S.M. Myrontsia [10], O.V. Timchenko [7], etc.

Implementing the research plan and solving the tasks of collecting information at the initial stage of empirical research, we used the expert survey method based on the analysis of experts' opinions.

The basic principles of psychology were used to develop the methodological tools of the study: the principle of determinism, the principle of the unity of consciousness and activity, the principle of development, and others.

In the vast majority of scientific studies, the causes of erroneous actions were identified based on the collection and analysis of errors in specific types of activities.

In our opinion, the proposed taxonomy of mistakes according to the classes "skill-rule-control" can be used in relation to fire-applied sports. But in fire-applied sports, such a structural factor as "knowledge" is not relevant. The fact is that running a race from any type of PPS takes little time and does not require decision-making. For example, the fastest type is climbing a retractable ladder, the time of which according to the competition rules is from 12 to 22.3 seconds. The longest type is the fire relay (4x100 meters), the time for this type of exercise is from 55 to 80 seconds. Therefore, all the actions of athletes of firefighting and applied sports are automated.

**Results and discussion.** We believe that both objective factors (external, related to the peculiarities of the environment and situation) and subjective factors (or internal, related to the peculiarities of the organization of the inner world) can influence the erroneous actions of an individual.

**Yes, V. A. Ponomarenko and L. A. Agapov [8] single out the reasons for the occurrence of erroneous actions by military personnel caused by external (objective) circumstances:**

- ✓ unbearable complexity or severity of certain operations; непомітна складність або тяжкість тих чи інших операцій;
- ✓ difficulty combining actions that are not compatible; труднощі суміщення дій, що погано сполучаються;
- ✓ excessive requirements for accuracy and speed of operations;
- ✓ lack of ability to control the quality of performance of the action, etc.

A number of scientists also note that among the external factors that will significantly affect the activity of a specialist, the following can be distinguished: the complexity of the work performed, stressful conditions of activity, negative factors of the professional environment (noise, vibration, temperature, etc.), improper organization of the work and rest regime [1; 8; 10].

Therefore, the error-free performance of sports exercises by athletes of firefighting and applied sports will depend not only on their individual characteristics. The reliability and error-free professional activity of a specialist will increase if the functional capabilities of a person are taken into account in advance in the design and operational characteristics of equipment and special equipment. This is also noted by a number of modern research psychologists [4; 6; 7].

It should also be noted that, along with erroneous actions and refusals, a number of psychologists single out "violations" of activity caused by incorrect actions of specialists who knew about the possible occurrence of dangerous consequences and could prevent their occurrence. V. I. Voronova, [2] believes that the psychological prerequisites for the occurrence of accidents are the psychological causes of incorrect actions that lead to the occurrence of emergency situations. The author singles out the following psychological reasons:

- ✓ inconsistency of individual and psychological characteristics with existing activity requirements;
- ✓ temporary decrease of the individual level of psychophysiological parameters;
- ✓ non-compliance with rules and instructions on safe behavior.

**Conclusions.** From the above, it can be concluded that mistakes made during sports competitions by PPS athletes can affect not only the achievement of a high sports result, but also their health and life.

Our analysis of modern views on the nature of the occurrence of erroneous actions allows us to make the assumption that the main reason for the occurrence of erroneous actions in the sports activities of sportsmen of fire-fighting and applied sports of the State Emergency Service of Ukraine is the inconsistency of the



requirements of the individual for this sport and changes in the structure of the personality that occur as a result of inconsistency personal characteristics to the conditions of this activity. Such an approach to understanding the causes of erroneous actions of athletes of the PPS during their performance of sports exercises allows us to identify those areas of the personality structure that can determine the error-free performance of sports activities and have three levels:

- ✓ socio-psychological;
- ✓ individual and psychological;
- ✓ neurodynamic.

## **REFERENCES**

1. Barko, V. I. Professional description of the main types of activities in the internal affairs bodies of Ukraine [Text]: [practice. manual] / V. I. Barko, Yu. B. Irhin, T. V. Nescheret, O. V. Shapovalov / Kyiv. national University of Internal Affairs affairs - K.: SE "Printing House of the Interior Ministry", 2007. – 100 p.

2. Voronova, V. I. Psychology of sports [Text]: academic. manual / V.I. Voronov - K.: Olympic Literature, 2007. - 298 p

3. Gosteeva, T. V. Psychological features of the long-term forecast of the success of the professional activity of employees of the OAS: author's abstract. thesis for obtaining sciences. degree in psychology N. : special 19.00.09 "Psychology of activity in special conditions" / Tetyana Volodymyrivna Gosteeva; NUTZU. – Kh., 2011. -20 p.

4. Extreme psychology [Text]: textbook / A.S. Kufliyevskyi, D.V. Lebedev, S.M. Myronets and others. ; in general ed. O. V. Timchenko - K.: August Trade, 2007. - 502 p.

5. Korniyko, U. V. Psychological changes in the athlete's personality in the process of sports activities under the influence of psychotraumatic factors: thesis. ... candidate physical education and sports: 24.00.01 / U. V. Korniyko - K., 2003. 178 p.

6. Potapchuk, E. M. Theory and practice of maintaining the mental health of

military personnel [Text]: [monograph] / E. M. Potapchuk – Khmelnytskyi: National Publication. Acad. DPSU named after B. Khmelnytskyi, 2004. – 323 p.

7. Oleksandr Volodymyrovych Timchenko. Professional stress of employees of internal affairs bodies of Ukraine (conceptualization, forecasting, diagnosis and correction): dissertation. ... Dr. Psychol. Sciences: 19.00.06 / Oleksandr Volodymyrovych Timchenko. - Kharkiv, 2003. - 427 p.

8. Ponomarenko, V. A. Methodological bases of studying erroneous human actions [Text] / V. A. Ponomarenko, N. D. Zavalova // Psychological foundations of professional activity: [handbook] / [comp. V.A. Bodrov]. – M.: PER SE; Logos, 2007. – P. 430–438.

9. Lebedeva, S. Yu. Psychological support of professional and functional reliability of specialists of sniper groups of special units of the Ministry of Internal Affairs of Ukraine [Text]: [monograph] / S. Yu. Lebedeva, O. V. Timchenko. Kharkiv: Khnadu, 2005. - 326 p.

10. Myronets, S. M. Negative mental states and reactions of employees of emergency and rescue units of the Ministry of Emergency Situations of Ukraine in emergency situations: autoref. thesis for obtaining sciences. degree in psychology N. : special 19.00.09 "Psychology of activity in special conditions" / Serhiy Myronets Myronets; UCSU - Kh., 2007. - 22 p