**STIMULATION OF TECHNOLOGICAL BREAKTHROUGH**

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**Abstract**

The presidential decree of May 7, 2018 No. 204 sets serious challenge for national economy "for the purpose of implementation of breakthrough scientific and technical and social and economic development of the Russian Federation". In the presidential message to Federal Assembly the tasks are concretized – to be one of the five largest economies in the world. Which means to take place among the USA, China, India, Japan and Germany. Due to considerable economic growth a material wealth of the Russian will significantly increase. But they are not only objects of development, but also its subject the scale, scientific and technical level, completeness of implementation of the planned actions and the effect gained from them – depend on citizens their active participation.

**Keywords**: an official pay rate or the tariff rate; labor power; the federal grid of official pay rates and the tariff rates; ratio of permanent and variable parts of wages.

**SCIENTIFIC FUNDAMENTALS OF OCCUPATIONAL**

**SAFETY AND HEALTH SYSTEMS**

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**Abstract**

Criteria of effectiveness and efficiency of the OSH management systems, headed at protection of workers against dangers and occupational risks of economic operators are systematically considered.

**Keywords**: occupational safety and health management systems, criteria of effectiveness and efficiency assessment, protection against dangers and risks, scientific methodology of labor protection.

**SOCIAL AND ECONOMIC DAMAGE FROM INDUSTRIAL TRAUMATISM ANDOCCUPATIONAL DISEASES**

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**Abstract**

In article the author shares his vision of the ways for estimating social and economic effect of accidents at work and professional deseases in the organizations of the Russian Federation.

**Keywords:** assessment technique; structure of total damage; cost types when calculating damage; types of losses; mechanism of implementation of a technique; calculation formula.

ABOUT THE CAUSES OF HIGH INJURY ACCIDENTS IN THE CONSTRUCTION

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**Abstract**

The analysis of various classifications of causes of accidents in construction industry is carried out. The shortcomings and non-specificity of individual classifications are indicated, which significantly complicates the development of the necessary preventive measures. The results of the study of the causes of accidents according to the primary documents drawn up. It was found that up to 80% of cases of injury in the construction industry are due to technical reasons, and organizational reasons account for no more than 20% of cases.

**Keywords:** сonstruction; accidents at work; analysis; technical reasons.

**PROFESSIONAL RISKS OF DIVERS**

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**Abstract**

The major factors of working conditions (danger) causing accidents and occupational diseases of the workers who are carrying out diving works (professional risks) are given in article. Variety of ways and importance of prevention of these factors is shown.

**Keywords**: working conditions, diving works, occupational risks, prevention.

**SPECIAL ASPECTS OF WORKING CONDITIONS OF WORKERS IN THE METALWORKING PROCESS**

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**Abstract**

This article presents the results of research on work environment during operation in the metalworking process. The causes and different types of accidents at work andprofessional deseases are analyzed.

Analyzing labor protection helped to offer new recommendations about elimination of industrial

injuries and occupational sickness in the metalworking process.

**Keywords**: labor protection, metalworking process, industrial injuries, occupational sickness, working conditions.

**INVESTIGATION OF PECULIARITIES OF WORKERS CONDITIONS OF WORK**

**ON RAILWAY TRANSPORT**

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**Abstract**

In the article results of research on working conditions of workers of a railway transportation of the general using which are carrying out works on transportation of cargoes and rendering services in service of passengers, and also providing continuity of transportation process and safety of movement of trains are analyzed.

Based on a comprehensive analysis of working conditions, recommendations are proposed for

eliminating the causes leading to accidents and the occupational deseases of workers when performing operations related to the organization of passenger, cargo, baggage transportation by rail.

**Keywords**: occupational safety; cargo and passenger transportation; accidents at work; occupational deseases; working conditions.

**PRESERVING OF LIFE AND HEALTH PERSONNEL – DUTY OF PARTICIPANTS OF LABOR RELATIONS**

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**Abstract**

The article considers the author’s view on the problem of saving life and health of personnel in

industrial activities, as well as the processes of interaction of the subject of labor with objects, means, products of labor and the environment.

**Keywords**: labor resources; technical means; technologies; objects, means, products of labor;

the environment; principles of staff development.

**FORMING OF PROFESSIONALLY SIGNIFICANT**

**QUALITIES AT OPERATION PERSONNEL**

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**Abstract**

In article need for developing of personally significant qualities of operation personnel on the basis of specially developed technique as wellas technology of its development and use is considered.

**Keywords**: responsibility of personnel; reliability and efficiency of operators; expert evaluation; activity conditions; quality of activity; functional features; tests for assessment; testing techniques.