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ECONOMICS AND MANAGEMENT OF NATIONAL ECONOMY

**WTO AND SANCTIONS: WHETHER THERE WAS A SENSE
EIGHTEEN YEARS TO WAIT FOR ACCESSION?**© 2018 **Karlik Alexander Evseevich**

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The Economics and Management of Enterprises and Production Complexes

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In article activity of the WTO as world regulator of trade is considered. Process of accession of Russia to the WTO, accession conditions and a consequence is analyzed. The policy of violation of the rules of the WTO by a number of the foreign states in the form of sanctions for «unseemly» behavior of Russia is considered. The conclusion about senselessness of stay of Russia in the WTO in the conditions of possible increase of economic sanctions is drawn.

Key words: WTO, sanctions, countersanctions, sanctions war

**ESSENCE, FORMS OF IMPLEMENTATION AND FUNCTIONAL DESIGN
OF THE TRANSFER OF TECHNOLOGIES**© 2018 **Gavrilyuk Artyom Vladimirovich**

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In the article the essence of the concept of «technology transfer» is investigated, the forms of transferring the results of research and development work are systematized and the functions of the technological transfer are defined. The specifics of the transfer of technology consisting in the promotion of innovations from the development stage to practical development are described. In the modern world the strategy of innovative development is based mainly solely on striving for leadership in high-tech sectors of the economy in connection with which the process of technology transfer becomes particularly important.

Key words: scientific-research activity, technology transfer, innovation process, innovative development.

RISK-BASED TECHNOLOGY FOR INFORMATION SUPPORT IN THE CONDITIONS OF THE DIGITAL ECONOMY: RISK MANAGEMENT FOR THE ENERGY SECTOR

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Introduction. In the theory and practice of management of the economy and the information society, there is no consensus and a generally accepted concept of the risk management.

The **aim** of the study is to develop approaches to meet the demand for risk management in the strategic management system (the Federal Law No. 172-FZ) and national security (the Federal Law No. 390-FZ) in the energy sector.

Methods. Recently, it has been proposed to apply risk-based technology for information support, logical-linguistic modeling and linguistic-combinatorial programming in the situation management system, which provided the foundation or the conceptual framework of the modern theory of adaptive management, which in its turn was developed and augmented with the social and the economic factors, allowing to simulate management processes (planning, coordination, organization, strategic and operational control) in the social and economic system (SES) with the application of artificial intelligence, cyber-physical systems (CPS).

Results. The article considers an example of application of problem-oriented technology of adaptive risk management in the form of an expert system of risk management for the energy sector. The project of the expert system is proposed as the foundation of the strategic planning system using logical and linguistic models, the construction of fragments of the discrete situational network.

Conclusion. The project proposed to set-up a network of industrial situational centers at nuclear power plants and their inclusion in the federal risk management system. Economic results are presented in three scenarios of project implementation. The solution consists in implementation of problem-oriented technology of adaptive risk management within the framework of the strategic planning system based on adaptive management and its integration into the federal risk management system.

The article is prepared with the support of St. Petersburg State University of Economics for the research project «The Impact of the Digital Economy on the Transformation of Forms of Organization and Cooperation Arrangements in the Real Sector of the Economy»

Key words: situation management; risk; logical-linguistic modeling; net cash flow; problem situation; profitability

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AN APPLICATION OF METHOD FOR UNDERTAKING MANAGEMENT SOLUTIONS UNDER PRODUCING OPTIMIZATION OF READY-MADE PRODUCT OF THE ENTERPRISE

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The article shows the methodology for implementing managerial decisions when optimizing the output of finished products at an enterprise using economic and mathematical analysis in the situation of the chosen model (on the basis of which optimization is carried out) and the calculated optimal plan.

Key words: Optimal solution, finished products, economic-mathematical analysis, plan sustainability.

FEATURES OF APPOINTMENT OF THE RAISED STATE ACADEMIC GRANTS IN THE EDUCATIONAL ORGANIZATIONS OF THE HIGHER EDUCATION

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The article analyzes in detail the problems and formulated the directions of their solution in the organizational and financial mechanism of appointment of increased state academic scholarships in educational institutions of higher education. The author suggests the classification of the distribution systems of the increased state academic scholarships, substantiates the advantages and disadvantages of each system.

Key words: scholarship support system, increased state academic scholarship, higher education, scholarship Commission

HEALTH OF THE WORKING POPULATION IS THE MOST IMPORTANT CONDITION FOR QUALITY AND LABOR PRODUCTIVITY

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Health of working population is the background for human capital, which is the driver of stable economic growth of the country. According to the official statistics data working efficiency in Russia is very low vs countries with developed market economy. Health status of working people has effect on working efficiency, quality of labor force and country demography in general. It is also the major index of socioeconomic development of current society. National economy progress and GDP growth depend on health of working population. Creation of a basically new concept is required to maintain and improve health of working population. The new concept should base on market economy principals, government participation and business accountability for health of working population.

Key words: health of working population, human capital, working efficiency, business accountability for health of working population

DEVELOPMENT OF THE EMPLOYMENT STIMULATING MECHANISM AND COMPETITIVENESS OF THE DISABLED (ON THE EXAMPLE OF MOSCOW)

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The article presents a comparative analysis of the components of rehabilitation of persons with disabilities recommended by the world health organization and the components of the rehabilitation system operating in Moscow. The author gives proposals for the improvement of the administrative and managerial activities: the formation of a labour market for persons with disabilities, the system of training competitive professions and through control over the implementation of the recommended individual programs of rehabilitation and habilitation and rehabilitation measures until employment and adaptation in the workplace, based on the use of the latest IT technologies.

Key words: disabled person, labor rehabilitation, employment, labor market, employment, competitiveness of disabled people, public-private partnership, socio-economic support, information technology.

FINANCE, MONEY CIRCULATION AND CREDIT

THEORETICAL AND HISTORICAL ASPECTS OF PENSION FINANCE IN RUSSIA

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The article is devoted to the development of the system of state provision of pension payments in Russia. The historical period from the 18th century to the present is considered. The results of the analysis of the effectiveness of pension protection at various historical stages are presented. Modern world and domestic problems and trends in the field of pension security finance are formulated.

Key words: pension provision of the population, the domestic history of pension security financing, the social efficiency of financing pension benefits, the distribution and accumulation pension system, the pension coefficient.

The classical model of the social state, which until recently provided an adequate level of social protection for vulnerable segments of the population and equal access of citizens to basic social guarantees, is being reformed today. Attention of legislators is turned towards neoliberal models that suggest the formation of a system of conditions for a more complete use of the labor, intellectual, entrepreneurial potential of able-bodied citizens, stimulating their personal responsibility for all periods of incapacity for work, including old age.

Since 1991, permanent pension reform has been observed in the Russian Federation. The figures unequivocally prove the ineffectiveness of the first stage of the pension reform: by 2000, the average pension rate decreased by 26%, the replacement rate was 37%, which is 4% (or 1.6 pp) below the 1997 level, while the number of pensioners increased by 1.7%, and the pension load ratio has not decreased. Expenses of the Pension Fund for

the payment of labor pensions in percent and GDP decreased by 36.4%. The results of the functioning of the distribution-accumulative pension system (2000–2014) are mixed: a positive fact is the growth of the average pension by 3 times and an increase in the share of expenditures by the FIU in GDP by 69%, while the replacement rate still does not comply with the recommendations of the ILO. To achieve target indicators of the next stage of the pension reform, namely, to increase the average size of the old-age labor pension to the level of two subsistence minimums in 2020 and to 2.5 subsistence minimums in 2030, and to provide the ILO and OECD generally accepted levels of replacement with the labor pension of the lost (ie 40%) replacement in the period 2018–2020, is possible only at the expense of individual efforts of the insured, in conditions of sufficiently high rates of economic growth, determining the growth of employment and declared (white) wages.

PARTICIPATION OF INSURANCE COMPANIES IN THE ACTIVATION AND IMPROVEMENT OF INVESTMENT ACTIVITIES

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The Russian practice of investment activity and investment process has been widely studied in the works of economists. However, the need to investigate the real financial problems, including in the sphere of insurance, is in demand. Scientific and practical interest is the need for state regulation of investment activities related to the provision of the legislative base and the search for specific methods, ways of organizing the investment process.

Key words: investment development, investment activity, investment, insurance, insurance market, insurance reserves, investment directions.

THE ROLE CREDIT IN THE DEVELOPMENT OF SMALL AND MEDIUM BUSINESS

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Discusses issues concerning the necessity of the loan and its role in the development of small and medium enterprises in the economy as a whole. Discusses the importance of Bank credit in development of economy of market type. A comparison of the concepts of «role of credit and features of the loan». Examines the such functions of the credit are redistributed-dividing function, function replacement of the valid money by credit operations, and others. Opinions of different authors concerning the performed credit functions. Different points of view on this issue-verheyde the author's critical analysis, summarizing.

Key words: credit, options credit, role of credit in development of small and medium enterprises.

BOOK KEEPING, STATISTICS

NEW EDUCATIONAL CONCEPT AND MODELLING OF PROFESSIONAL ACTIVITY OF THE ACCOUNTANT

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One of the most important aspects of a stable financial position of any company in modern conditions is the accurate organization of economic activity. The organization of economic activity in the company is impossible without deep and detailed analysis of all processes related. Analytical work is extremely important for the organization of settlement system of the enterprise. Article is devoted to questions of the new educational concept

Key words: accounting, financial reporting, economic analysis, technique, ways, receptions, new educational concept

ACCOUNTING AND REFLECTION IN THE REPORTING INFORMATION ON SOCIAL COMMITMENTS BASED ON APPLICATION OF OFF-BALANCE ACCOUNTING

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The article is devoted to the development of the methodology of accounting and the formation of information on social responsibility and social obligations in the reporting of companies. Within the framework of the article, methodical approaches are proposed with the use of accounting tools (including off-balance accounting) to organize the grouping and movement of information. The limitations and ways of their overcoming are revealed with the use of the accounting methodology in the reflection of social investments and their financial interpretation in the financial statements. As a key direction in the development of reporting on social obligations, the establishment of a related and mutual flow of information between the financial and social reporting of an economic entity is considered, which can be used in non-financial reporting to provide full information about the social responsibility of interested users. It is established that the accounting reporting has a significant potential for disclosing such information and can serve as an addition, as well as an alternative to non-financial in this area.

Key words: social responsibility, social obligations, accounting reporting, social reporting.

WORLD ECONOMY

VOLATILITY ESTIMATION OF THE U.S. GAS SPOT PRICES IN THE MARKOV-SWITCHING MODEL WITH HETEROSCEDASTICITY

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The relevance of this study is determined by the significant impact on the economy of the energy prices volatility, including the gas prices volatility. High volatility in energy prices can lead to a reduction in direct investment, demand decrease in the economy and, in addition, may contribute to the shocks development. The purpose of this study is to determine the volatility periods of the Henry Hub spot gas prices and compare them with the shocks periods in the US economy. In accordance with the goal, the task was set to estimate the U.S. gas spot price volatility in the Markov-switching model with heteroscedasticity. With the help of this model, two regimes of the volatility switching of Henry Hub gas spot prices were received. In

the first regime, there is a high volatility of the gas spot prices, which is largely associated with a high oil price increase. Also, volatility peaks in gas prices were related to the impact on the economy of hurricanes (2005) and the impact of an abnormally cold winter (2005, 2007, 2009–2010, 2014). It was found that in the first regime of volatility switching, the high growth peaks of the gas spot prices in 2001 and 2008 coincide with periods of economic crises. In the second switching regime, the relatively low gas spot prices volatility was noted against a backdrop of a decline in the gas prices. This regime of the gas prices volatility switching includes the period from 1997 to 2001 (at this time, on the market was a low price of gas and oil). And also, includes the period from 2011 to 2013, when the gas prices were falling against a backdrop of a high gas supply and a reduction in gas imports associated with the shale production growth in the U.S. and the period from 2015 to 2016. (the gas prices decrease was due to the impact on the economy of the oil prices collapse in 2014).

Key words: Markov-switching model, volatility estimation, economic crisis, gas price, gas, oil, shock

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TRANSNATIONALIZATION OF BUSINESS: NATURE AND MAIN TRENDS

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The article is devoted to the analysis of modern trends of globalization of business activity. The nature of this process, its components are discussed: the growth of transnational networks, the spread of new information and communication technologies, the globalization of supply and demand, deregulation of markets. Special attention is paid to the impact of globalization on the competitiveness of companies.

Key words: globalization, transnational business, new information technologies, global competition, competitiveness

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ON THE CONDITIONS FOR THE SUCCESSFUL ESTABLISHMENT AND OPERATION OF TERRITORIES OF PRIORITY SOCIAL AND ECONOMIC DEVELOPMENT IN THE FAR EAST OF RUSSIA

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Abstract. An important component of the modern anti-crisis policy of Russia is the creation of territories for priority social and economic development (TPD) aimed at attracting investment and stimulation of the social and economic development of regions, primarily the Far East. The article shows that in order to provide the effective operation of TPDs, it is advisable to take into account the positive and negative experience of creating special, or free economic zones in China and Russia. In this connection, it is advisable to develop an official concept of long-term development of the TPDs, which should include conceptual approaches to solution of all the necessary issues of their creation and functioning, as well as limiting risks.

Key words: investment; territories of priority development; Far East; infrastructure; anti-crisis, regional policy

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