

## Pedagogical Sciences

I.S. Ganishina

Academy of Law and Administration of the Federal Penitentiary Service, Ryazan

### **Personal Characteristics of Some Categories of Drug Addicted Convicts**

Keywords: drug addiction; penal enforcement system; convicted; personal characteristics of drug addicted convicts; heroin; penal enforcement staff.

Abstract: The paper deals with the personal characteristics of convicts addicted to heroin.

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## Culturology

M.V. Badelina, V.A. Falina

Surgut Oil and Gas Institute – Branch of Tyumen State Oil and Gas University, Surgut;

Lenin Ivanovo State Power University, Ivanovo

### **Some Approaches to Understanding Business Ethics Rules of Writing a Letter of Application**

Keywords: business documentation; business etiquette; application; form.

Abstract: The paper discusses the rules and norms of writing a letter of application with regard to modern trends in its writing. The structure, form and content of applications are analyzed and exemplified through the samples used in teaching the course “Russian Language and Culture of Speech”.

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N.V. Kipriyanova

Vladimir State University named after A.G. and N.G. Stoletovs, Vladimir

### **Commercial and Industrial Activity of Merchants of the Vladimir Province at the End of 18th – the First Half of 19th Centuries**

Keywords: Russian merchants; competition; trade development; industry; industrial exhibitions.

Abstract: The paper analyzes commercial activities of merchants in the Vladimir province. A specific feature of commercial activities during that period was active involvement of peasantry in trade and fisheries; this increased competition and partly undermined unstable merchant capital.

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A.M. Shameev

Berbekov Kabardino-Balkaria State University, Nalchik

### **Main Features and Contradictory Tendencies of Cultural Processes in the USSR in the 1960-1980s (On the Example of the Intelligentsia)**

Keywords: intelligentsia; art; history; culture; literature; science; feature; process; country; trend; habit.

Abstract: The paper is devoted to the identification and coverage of basic features and contradictory tendencies of cultural processes in the USSR in the 1960–1980s (on the example of the intelligentsia). It gives a brief history of the formation and activities of the dissident movement in the country, one of the causes of which was strengthening of administrative action, ideological pressure of the party and state on the intelligentsia, and confrontations between them. The author concludes that during the nearly 20-years of L.I. Brezhnev's leadership the science and culture in the USSR gained quite democratic forms; they had distinctive features and contradictory phenomena.

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## Machine Building and Engineering

A.N. Ivanov, K.V. Nizhegorodova, M.D. Nosova

St. Petersburg National Research University of Information Technology, Mechanics and Optics, St. Petersburg

### **The Method for Measurement of Transparent Plate Refractive Index Using Shift of**

page 28-32

### **Diffraction Pattern**

*Keywords: diffraction; measurement; measurement error; points of phase inversion; refractive index.*

*Abstract: The precision of the refractive index measurement based on shift of diffraction pattern by plane-parallel plate has been verified. The authors propose the way to increase precision of shift measurement. As a result, the precision of refractive index measurement increased to  $\pm 2 \times 10^{-4}$ .*

V.L. Snezhko, S.L. Kuleshov

Russian State University of Agriculture – Timiryazev Moscow Academy of Agriculture, Moscow

### **Application of International Standards in Laboratory Hydraulic Engineering Studies**

*Keywords: hydraulic experiment; hydraulic engineer; metrology; standardization.*

*Abstract: The authors give recommendations for conducting and processing the results of experimental studies of the hydraulic characteristics of hydraulic structures according to the requirements of ISO 5725.*

page 33-37

A.G. Chvertkin

MATI – Tsiolkovsky Russian State Technological University, Moscow

### **The Use of Groundwater in the Peat Fire Extinguishing**

*Keywords: peat fire; ground waters; water pump; burning center; drilling rig.*

*Abstract: The paper describes the approaches to increase the efficiency of the peat fire extinguishing using ground waters. The nearby arrangement of the source of fire and the tanks of water was noted. The factors of using ground waters for the peat fire extinguishing were analyzed; the schematic diagram of the pump drilling rig was described.*

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## **Economic Sciences**

S.V. Bolotnikov, A.A. Kovanev

Moscow State Mechanical Engineering University, Moscow

### **Macroeconomic Indicators as a Factor in the Purchasing Power of the Moscow Population in the Consumer Market**

*Keywords: cost; consumer goods; macroeconomic indicators; inflation.*

*Abstract: The paper presents a descriptive study of changes in the value of goods and the main macroeconomic indicators of the Russian Federation for the period of 06.2014–03.2015. The results of the study included: assessment of changes in the purchasing power of the population for the period; calculation of the dependence of the change in consumer goods prices on macroeconomic factors; calculation of the ratio of growth rates of the cost of goods and increase/decrease in the value of Brent oil, the rate of the national currency “ruble”, the expected rate of inflation. These factors can be used to predict the prices of consumer goods in the market in Moscow.*

page 41-45

E.V. Borisova

St. Petersburg State University of Economics, St. Petersburg

### **The Construction of the Russian Innovative Economy on the Basis of a New Technological Wave**

*Keywords: innovation; innovation economics; industrial relations; technological structure; breakthrough technologies.*

*Abstract: The paper considers the issues of building an innovative economy in the Russian Federation on the basis of the sixth technological wave; the essential features of technological waves have been classified.*

page 46-48

V.V. Vasilyev, A.I. Lychagin

Lobachevsky Nizhny Novgorod State University, Nizhny Novgorod

### **The Shanghai Cooperation Organization. Features of Development in Conditions of Global Uncertainty**

*Keywords: SCO; perspectives of development; Shanghai Five; security; international security; economic cooperation.*

page 49-52

*Abstract: The paper discusses the ways of transforming the regional organization the Shanghai Five into the international and authoritative organization The Shanghai Cooperation Organization. The main objectives regarding the security and international cooperation and the future prospects of development in conditions of global uncertainty were analyzed.*

A.A. Voronov

*St. Petersburg State technological Institute (Technical University), St. Petersburg*

***Geopolitical Determinants of the Modern World and their Influence on National Economic Systems***

*Keywords: genesis and evolution of geopolitics; globalization; instability; national economic systems; polycentric world order; regionalization.*

page 53-56

*Abstract: The paper discusses the main geopolitical centers of influence on the world economy and national economic systems. It is noted that this influence has both macro-level and meso-level of economy de-compensation. The main features of geopolitical sources and their use in the modern world are interpreted as set of factors of geopolitical instability and potential destructors of the international economy*

L.A. Kovalerova, V.V. Mandron

*Petrovsky Bryansk State University, Bryansk*

***The Market of Government Securities in the Context of the Problems of Mutual Assistance Distribution in Conditions of Regional Budgets Imbalance***

*Keywords: budget; region; subsidies; grants; subvention; transfers; public debt; capital market; government securities; bond market; federal loan bonds; investors in the market for government securities.*

page 57-60

*Abstract: This article analyzes the market for domestic and foreign bonds, provides an assessment of the structure of the bond market of the Russian Federation; the problems related to the budget imbalance in regional economies have been identified; the priorities for the bond market development to cover the budget deficit for the economic and social development of the country have been determined.*

R.K. Makhmudov, L.I. Korneva

*North Caucasus Federal University, Stavropol*

***Geo-Information Support of Investment and Urban Tourism Development***

*Keywords: geographic information systems; urban tourism; investment potential; touristic routes; sustainable development of urban areas.*

page 61-63

*Abstract: The paper reviewed the problems and mechanisms of geo-information support of investment and urban tourism development exemplified by Svetlograd city in the Stavropol region. The main directions and objectives of geo-information support were identified.*

F.M. Mirzoeva

*Berbekov Kabardino-Balkaria State University, Nalchik*

***The Role of Small Business in the Regulation of the Labor Market of the Kabardino-Balkaria Republic***

*Keywords: entrepreneurship; economics; small and medium businesses; market system; employment; infrastructure; unemployment; human resources; marketing; commercial banks.*

page 64-67

*Abstract: The paper analyzes the priority directions of the employment regulation during the period of formation and development of market economy in Kabardino-Balkaria, as well as the problems and prospects for further development of the employment market in the republic. The role of small and medium businesses is described in solving unemployment in traditionally labor-surplus rural settlements.*

E.A. Mukaydekh

*Bryansk Institute of Management and Business, Bryansk*

***The Fundamental Tools of Islamic Banking and the Possibility of Its Use in the Russian Economy***

*Keywords: Islamic banking; Sharia law; Islamic Finance; financial instruments; global financial crisis; loan interest; traditional banking system; investment processes; investment project; musharaka; mudaraba; zakat; credit risk; macroeconomic instability.*

page 68-72

*Abstract: The article discusses the principles of operation of Islamic banks, global experience in the development of Islamic banking, as well as the possibility of formation and development of Islamic finance system in Russia in modern conditions. Special attention is paid to the analysis of such financial tools, as musharaka, mudaraba, zakat. The author especially emphasizes the important role of these tools in reducing credit risks of commercial banks, as well as stimulating consumer and investment demand in the context of macroeconomic instability.*

## Legal Science

*N.S. Podkorytov*

*Russian Legal Academy of the Ministry of Justice, Moscow*

### **Public Interest as an Element of Regulation of Public Relations Connected with the Prevention of Harm**

*Keywords: prevention of harm; public interest.*

page 73-77

*Abstract: The purpose of this article is to disclose public interest within the civil legislation of the Russian Federation, its role in the regulation of public relations connected with infliction of harm in the future and also the bases of its application and ways of resolving conflicts in law. Also, the author offers a method of regulation of relations connected with the subsequent compensation and indemnification proceeding from the Clause 1065 of the Civil Code of the Russian Federation.*

## Proceedings of the V International Scientific and Practical Conference

### “Science. Society. Business”

## Pedagogical Sciences

*O.V. Bolukh, V.I. Snegurova*

*Herzen Russian State Pedagogical University, St. Petersburg*

### **System Requirements to the Problems Contributing to the Formation of the Action of “Prediction”**

*Keywords: system problems in mathematics; requirements to the system of problems;  
construction of the system of problems.*

page 79-84

*Abstract: The author designed a system of mathematical problems aimed at the formation of the action of “prediction” in the process of learning mathematics in the primary school, and the requirements to its content.*

*N.A. Korbukova, E.G. Podkopaeva, A.A. Serdyukov, N.N. Karelina, I.V. Shelegin, R.V. Shupeiko*

*Moscow State University of Food Production, Moscow*

### **Dynamics of Student and Mass Sport**

*Keywords: student sport; mass sport; health; promotion.*

page 85-88

*Abstract: The authors describe a tendency of development of student and mass sport in Russia, promotion of healthy lifestyle. The development of physical culture and sport is one of the priority directions of social policy of the state.*

*D.F. Mikhnev*

*North Caucasus Federal University, Stavropol*

### **Innovation Infrastructure of University as a Condition of Preparing Students for Entrepreneurship**

*Keywords: innovation; innovation economy; innovation infrastructure; educational innovation;  
entrepreneurship training; entrepreneurship.*

page 89-94

*Abstract: The paper investigates the innovation infrastructure of the university as one of the*

conditions for preparing students for entrepreneurship. We consider the new principles of higher education institutions in transition to innovation economy. The paper presents the types of the innovation infrastructure of the university, its main components. The main methods of entrepreneurship education in the university, including the triple helix model, are characterized. In conclusion, the main directions of development of innovation infrastructure of the university are presented.

## Machine Building and Engineering

N.D. Bulchaev, L.N. Gorbunova  
Siberian Federal University, Krasnoyarsk

### **Professional Risks during Anticorrosion Works**

*Keywords:* corrosion; corrosion protection; safety; occupational risk; degree of safety.

*Abstract:* The equipment for oil and gas facilities is operated in difficult climatic environments and must be protected against corrosion. Safety during the anticorrosive works is impossible without proper protection from harmful factors in the workplace and industrial control over compliance with safety rules. A safety map helps to keep a record of violations of safety regulations by workers and make management decisions to improve conditions in the workplace.

page 95-99

Yu.A. Dubrovskaya, A.V. Bragish

St. Petersburg University of State Fire Service of EMERCOM of Russia, St. Petersburg

### **Risk-Oriented Approach to Ensuring Fire Safety**

*Keywords:* fire safety; fire risk; control - supervisory activity of EMERCOM of Russia.

*Abstract:* The activities carried out by the Supervisory authorities of EMERCOM of Russia due to lack of possibilities to fully suppress the violations of fire safety requirements, involving actual injury to life, health, property of citizens, require a change of approach to the supervision of compliance with mandatory requirements of fire safety.

page 100-102

A.V. Podzorov, V.V. Zverev, N.Yu. Tezikov, I.V. Karmanov, K.E. Zhidkov

Lipetsk State Technical University, Lipetsk

### **Modeling of Stress-Strain State of Thin-Sheet Profile Element with Double Corrugation**

*Keywords:* steel element with double corrugation; linear FEA; nonlinear FEA.

*Abstract:* Linear and nonlinear finite element analysis of the beam-column steel element with double corrugation was made. The calculation result was compared with the results of full-scale experimental studies. The features of steel elements with double corrugation were identified

page 103-105

V.V. Sorokina

Kirov St. Petersburg Forestry University, St. Petersburg

### **Forecasting and Mapping of Invasive Grasses Distribution**

#### **in Urban Environment (Case Study of St. Petersburg)**

*Keywords:* invasion; grasses; anthropogenic modified environment; urban areas; St.

Petersburg.

*Abstract:* The article discusses possible methods of forecasting of invasive plants distribution.

It is based on the information about the occurrence of species in urban environments.

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# Information Science, Computer Engineering and Management

A.S. Yakshina

Blagoveshchensk State Pedagogical University, Blagoveshchensk

## **A Special Case of the Riemann Homogeneous Problems**

*Keywords: Riemann problem; Temlyakov-Bavrin integral type; spatial boundary value problem.*

page 112-117

*Abstract: The paper considers the homogeneous problem of linear conjugation with a coefficient circulating in the infinity of integer orders, the solution of which was found in the form of Temlyakov-Bavrin integral of Type I of the first order.*

## Economic Sciences

D.A. Antipov, A.A. Mitroshin

Dmitrov Institute of Continuing Education - Branch of International University of Nature, Society and Man 'Dubna', Dmitrov

## **Comparative Analysis of the World Countries by Human Development Index**

*Keywords: human development index; dynamic analysis; rating analysis; trend analysis; comparative analysis.*

page 118-121

*Abstract: The paper presents a comparative analysis of the human development index for the period 1990–2013. The assessment methodology of territory differentiation of by rating and trend analysis was used. Using this method, one can perform a comparative analysis of the dynamics, and visualize the results for a large number of the objects.*

O.V. Voronkova

St. Petersburg Humanitarian University of Trade Unions, St. Petersburg

## **The Concept of Cultural Capital**

*Keywords: cultural capital; competence and expertise; traditions and values; individual cultural programs.*

page 122-124

*Abstract: The article reveals the notion of cultural capital, describes its incorporated status and form. It is known that cultural capital consists of competence and knowledge, traditions and values, individual cultural program. Cultural capital is embodied in the form of mental, material and spiritual artifacts of culture. In addition, cultural capital can be viewed as an institutional state in the form of social norms and regulations of behavior of society.*

L.A. Kovalerova, A.G. Rulinskaya

Petrovsky Bryansk State University, Bryansk

## **Assessment of the Status and Problems of Financing Local Government and Municipal Development of the Regions**

*Keywords: local governance; budget; budget system; municipality; settlement; region.*

page 125-128

*Abstract: The article considers the problems and peculiarities of financial security of local budgets; the problems were identified and ways to strengthen the financial base of municipal development in the system of inter budgetary relations were proposed.*

E.A. Mayorova, G.G. Ivanov

Plekhanov Russian University of Economics, Moscow

## **The Results of the Study of Customer Perception of Retailer Social Responsibility**

*Keywords: corporate social responsibility; consumer survey; retail; retail organization.*

page 129-132

*Abstract: The article presents the results of the research (survey) aimed at studying customer perception of retailers in the field of corporate social responsibility. The influence of social activity of retailers on the opinions and behavior of customers was assessed; the most and the least important components of the corporate social responsibility of retailing from the customers' perspective were described.*

V.V. Silaeva, V.E. Kasatkin, M.A. Muravyeva, O.G. Nazarova

Petrovsky Bryansk State University, Bryansk

***Innovative Development as a Condition for the Formation of the Organization Infrastructure***

*Keywords: innovative development; competitiveness; movement of goods; customs and logistics infrastructure; customs and logistics terminal; customs operations; customs control.*

*Abstract: Innovative development of economy is presented through the prism of improving customs operations. The theoretical and practical components of the customs infrastructure are exemplified by customs and logistics terminal of the Pogarsky customs post located in the Bryansk region.*

page 133-136

Wu Songjie

Shandong Normal University, China

***The Use of Business Plan for Marketing Innovation***

*Keywords: business plan; market demand; marketing activities; promotion of an innovation project.*

*Abstract: Today, the existence of a business plan is a mandatory requirement to ensure qualified marketing promotion of an innovative project.*

page 137-139

I.G. Khangeldieva

Lomonosov Moscow State University, Moscow

***Rental and Leasing Services in Culture and Art***

*Keywords: culture; art; fine art; museum; gallery; rent; lease; art library.*

*Abstract: The article is devoted to understanding modern trends of development in the sphere of culture and art in Europe and Russia. Rental and leasing technologies, which previously were not characteristic of art and culture, are considered as the main trends. The main causes of these trends and their origin have been identified.*

page 140-146

## Political Science

M.V. Danilina, K.Yu. Bagratuni

Financial University under the Government of the Russian Federation, Moscow;

Moscow State University of Economics, Statistics and Informatics, Moscow

***Topical Issues of E-Government Development in Russia***

*Keywords: e-government; public administration; Russia; computerization; data.*

*Abstract: The paper explores the system of measures for improving the efficiency of public administration efficiency. The effectiveness of the e-government project is explained by the fact that the government delegates some of its powers to the public, and that, in turn, becomes more involved in the governance process. The article considers the possibility of further computerization of Russia and its development this direction.*

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