

## Biological Sciences

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### **Inhibitory Activity of *Bacillus Licheniformis* VKPM B 7038 strain during Seed Germination of *Trifolium Pratense* L**

**Keywords:** *Bacillus Licheniformis* VKPM B 7038; *Trifolium pratense* L.; germination; microorganisms; plants; seeds; phytotoxicity.

page 5-9

**Abstract:** The article represents the results of the study of phytotoxicity of *Bacillus Licheniformis* VKPM B 7038 strain related to germinating seeds of *Trifolium pratense* L. Combined methods were used for determination of the strain phytotoxicity. The existing differences in the variants of the experiment were estimated by parametric and nonparametric methods of analysis. Phytotoxicity of strain is shown at the early stage of growth and development of *Trifolium pratense* L.

## Pedagogy and Psychology

*N.I. Balchyunene*

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### **On Educational Functions of Professional Dictionaries**

**Keywords:** education; Russian language; professional dictionaries; terminology; Finnish language.

page 10-14

**Abstract:** It is shown that professional dictionaries have to be focused on performance of educational functions for users so that they could increase their competence in a professional field of activity through studying sets of professional terms and definitions.

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### **Traditions as Socio-Cultural Phenomenon**

**Keywords:** education; formation; pedagogy; tradition.

page 15-18

**Abstract:** This research paper explores the notion, specific character and functions of tradition. Pedagogical and educational potential of tradition is examined.

*A.V. Nedelyaeva*

*The Minin Nizhny Novgorod State Pedagogical University, Nizhny Novgorod*

### **New Pedagogical Technologies in the Course “Life Safety”**

**Keywords:** cooperative learning technology; course “Life Safety” ; Moodle-based distance learning.

**Abstract:** The article covers the results of a thorough analysis of Moodle software as one of the new e-learning pedagogical technologies. The research was conducted at the Minin Nizhny Novgorod State Pedagogical University with the use of both theoretical and empirical methods. The formation of certain elements of life safety culture, students’ interest and active involvement in the sphere of life safety can be achieved through the increase of their cognitive motivation. Various active technologies can be successfully employed to reach this goal, for example, methods of projects, case study, critical thinking, etc. In our case the most successful proved to be cooperative learning, projects and distance learning on the base of the Moodle platform. The advantages of these include 1) stimulation of the integral emotional and creative development of a student’s personality as an active member of society; 2) distance learning (used for students’ independent work) serves a more profound penetration into the subject matter of the course by widening its content.

page 19-22

*E.N. Romanova*

*Vladimir Law Institute of Federal Penitentiary Service, Vladimir*

### **Group Aspect of Adolescents’ Delinquency**

**Keywords:** delinquent behavior; delinquent groups; social environment; homophily; peer influence; subcultures.

page 23-25

**Abstract:** The article describes some foreign studies of the problems related to the conditions and mechanisms of the formation of delinquent groups of minors. It states the diversity of peer

influence on the development of antisocial behavior in adolescents and the role of the subcultures atmosphere as a mediatory factor contributing to the formation of delinquent and criminal behavior.

*A.M. Kharitonova*

*Moscow State Regional University, Moscow*

#### **Aesthetic Education in Modern Culture**

**Keywords:** aesthetic education; aesthetic culture; mass culture; aesthetic environment; student; institutional system of education; educational process.

**Abstract:** The paper explores the aesthetic education specificity of secondary school students in conditions of modern culture and possible ways of overcoming the negative impact of mass culture on the aesthetic development of students.

page 26-29

*V.B. Khasyanov*

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#### **Counselors' Training for the Programme of Theological Media Education in Orthodox Camp**

**Keywords:** theological media education, training counselors, mentoring program, summer camp, Orthodox camp.

**Abstract:** The paper explores the features of theological media education as a means to work with the picture of the world of children and adolescents as part of the educational program of Orthodox camp and counselors' training for its implementation.

page 30-33

*Hussain Hisham Ali Hussain*

*State Institute of Russian Language named after A.S. Pushkin, Moscow*

#### **Electronic Hypertext in the Lessons of Russian as a Foreign Language and Multimedia Educational Course Design**

**Keywords:** Russian as a foreign language; hypertext; hyperlink (link); interactive; multimedia.

**Abstract:** The article explains the concept of hypertext and its components; the use of electronic hypertext for foreign language teaching has been justified. The theoretical findings are supported by the examples of existing multimedia courses in Russian as a foreign language. The effectiveness of virtual forms of educational activity has been verified. The author proposes an improved multimedia computer course designed to study Russian as a foreign language by Iraqi students at the initial stage of learning.

page 34-39

## **History, Philosophy and Sociology**

*N.A. Zavyalova*

*Ural State University of Railway Transport, Yekaterinburg*

#### **Intelligence through Communicative Formulae**

**Keywords:** globalization; idiom; communicative unit; corpus; culture; philosophy of culture.

**Abstract:** Intelligence has always been the core component of philosophical description. In the article we concentrate on intellectual issues through the prism of communication. Intelligence is described through the channels of communication. We apply idioms, which are given as stable communicative formulae, to describe intelligence and moral principles in different cultures. With the help of on-line electronic linguistic corpuses (Chinese corpus), KOTONOHA (Japanese corpus), BNC (British National Corpus), COCA (Corpus of Contemporary American English) we analyze intelligence on the basis of idiom frequency indexes. The research results have been processed into a database registered with Rospatent Certificate No. 2013620397 of 13.03.2013.

page 40-43

*O.M. Manzhueva*

*East-Siberian State Academy of Culture and Arts, Ulan-Ude*

#### **Intellectual Property in the Light of Modern Technologies**

**Keywords:** intellectual property; computer software; computer ethics.

**Abstract:** The article describes the philosophical views on the definition of intellectual property, search for solutions to the problems arising in the widespread use of information technology.

page 44-47

*S.Yu. Piskorskaya, Yu. Yu. Gorodkova*

*Siberian State Aerospace University named after Academician M.F. Reshetnev, Krasnoyarsk*

page 48-50

### **Development of Strategic Culture**

*Keywords:* strategic culture; national security; national interests.

*Abstract:* The increase in social and political tension in the modern world requires a comprehensive study of the possibilities of developing a strategic culture, which should be an adequate public-purpose method of solving vital national problems.

*S.Yu. Piskorskaya, E.V. Teterina*

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### **The Problem of Social Security within Social Entropy Concept**

*Keywords:* security of social systems; social entropy; social order.

*Abstract:* In the modern world, escalation of social tension, religious confrontation, and as a result, the growth of extremism and terrorism require thorough and comprehensive research of existing limits of security in social systems. This includes a thorough and comprehensive study of the safe existence of social system limits, the forming regions, the specificity of manifestations, technologies and mechanisms to overcome the social entropy in global geopolitical context.

page 51-53

*V.P. Starostin*

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### **The Influence of Myth on Moral Consciousness**

*Keywords:* group moral consciousness; myth; philanthropy

*Abstract:* The author considers the mythological consciousness influencing group moral consciousness as a fact of existence in any period of development of society. It is especially important to consider this circumstance in the modern technocratic globalized world. However, political ideas and beliefs tend to be treated at the level of myth. The death of myth is typical of ideology. It occurs because morality, going to the level of the social dimension, changes its original value.

page 54-56

*I. A. Sheenko*

*Belgorod National Research University, Belgorod*

### **Some Features of Social Psychology of Manorial Peasants in the 1840–1850s**

*Keywords:* pre-reform period; peasants; landowners; social psychology.

*Abstract:* The article examines the features of social psychology of manorial peasants in the prereform period in the context of estate life. The author analyzed some characteristic features of peasants' views on relations with the representatives of the landed gentry and their specificity.

page 57-60

*I.S. Yakimanskaya*

*Orenburg State University, Orenburg*

### **Memories of Childhood Psychological Injuries: Analysis and Classification**

*Keywords:* children's trauma; traumatic experiences; classification of injuries.

*Abstract:* The paper describes the results of the pilot study of adults' memories of childhood psychological injuries; the main characteristics of traumatic experience have been allocated, psychological injuries have been classified.

page 61-63

## **Philology**

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### **The Development of Cognitive Theory of Metaphor**

*Keywords:* metaphor; cognitive metaphor; categorization; cognitive linguistics; psychological concepts of metaphor.

*Abstract:* This article presents an overview of cognitive studies of metaphor, a comparatively new science, which emerges at the intersection of philosophy, psychology, neuroscience and linguistics. It is noted that the central place in cognitive linguistics is the problem of categorization of reality, in which the important role is played by metaphor as a manifestation of the analog capabilities of the human mind.

page 64-67

*E.V. Komleva*

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### **Expression of Functional Semantic Category of Appellativeness in the Semantics of Verbs**

page 68-74

### **(Case Study of Modern German Language)**

**Keywords:** appellativeness; German; functional semantic category; functional semantic field; lexis.

**Abstract:** The subject of the scientific analysis in this article is the functional semantic category of appellativeness, combining different variants of meaning of motivation for action, which are reflected in the lexicon of the German language.

*M.A. Saryan*

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**Effectiveness of Using Authentic Materials in the Process of Teaching a Foreign Language for Professional Communication**

**Keywords:** foreign language; professional foreign language communication; authentic material; enhancing motivation; real-life language use.

**Abstract:** The priority of education and professionalism caused by lack of qualified personnel with foreign language skills in professional fields put forward new demands to future professionals. Foreign language training teachers need to develop new programs meeting students' needs. The paper probes into the motivating nature of authentic materials especially for English for specific purpose learners with the assumption that language is used for real-life purposes by real people. This article states that benefits of authentic materials may range from highlighting comprehension, presenting real language, providing opportunities to introduce cultural issues, to enhancing motivation, and creating language awareness.

page 75-78

## **Mathematical Methods and Models**

*D.T. Dziov, V.A. Tarala*

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**Geometry Modeling of the Crystallization Front in the Early Stages of Growth of Sapphire Monocrystal**

**Keywords:** Kyropoulos; leucosapphire; growth mechanism; monocrystal; crystallization front.

**Abstract:** The mathematical modeling of the initial stages of crystal growth at a constant melt temperature near the crystallization front with a varying speed of rotation of the crystal in the range of 0 to 30 rpm and a linear variation of crystal growth with a predetermined speed for certain values of the height and diameter of the crystal at the initial stage of its growth.

page 79-84

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**Quantitative Methods of Comparison, the International Competitiveness of Countries: Methodological Aspects**

**Keywords:** competition; international comparisons; international competitiveness; international ratings; national economy.

**Abstract:** This article describes approaches to mapping international competitiveness, in particular, their possibilities and limitations in the application for validation of tools of state regulation of the institutional and infrastructure environment of the national economy.

page 85-88

## **Electronics, Measuring Equipment, Radioengineering and Communication**

*S.S. Bednarzhevskiy, G.I. Smirnov, D.A. Zhosan*

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**Noise Stability of Quantum Technologies of Laser Irradiation of Nanoheterogeneous Media**

**Keywords:** lasers; nanoheterostructures; electrophysics.

**Abstract:** The dependence of noise stability of laser irradiation of heterogeneous media nanosystems of low-energy particles on modes of polarization of radiation, parameters of anisotropy and nonlinearity of irradiated heterogeneous media is investigated. The established polarization and statistical properties of radiation in nonlinear heterogeneous media enable to model new methods of control over quantum amplitude and phase fluctuations of photons for the purpose of increase of efficiency and a noise stability of laser irradiation of nanoheterogeneous structures from particles of low energy.

page 89-91

# Economic Sciences

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## **Cluster Strategy of Agroindustrial Complex Development**

**Keywords:** agro-industry; cluster competitiveness; macroregion; industry; strategy; agricultural enterprises.

page 92-95

**Abstract:** The paper identified the main features of cluster relations; on the basis of investment and innovation-oriented production efficiency clusters were defined. Also, it was determined that the cluster approach allows individual businesses to stimulate the development of agroindustrial complex (AIC), and become a catalyst for economic growth in the region.

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## **Corporate Social Reporting: Implementation and Development in Foreign Countries and Russia**

**Keywords:** corporate social reporting, corporate responsibility, corporate ethics.

page 96-100

**Abstract:** The article outlines the corporate social responsibility origins, provides examples of some foreign countries national legislation in relation to the economic and legal concept, analyzes particular features of the corporate social responsibility development in Russian business practice.

*L.A. Vatutina*

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## **Principles of Business Risk Management in Conditions of Innovative Economy**

**Keywords:** innovative economy; business risk; principles of business risk management.

page 101-105

**Abstract:** The paper describes the main trends in the formation of the innovation economy of Russia at modern stage. The author identified the problems hindering the innovation development of the national economy. The composition of major groups of risks arising in the innovation activity of the subjects of Russian entrepreneurship was studied, the principles of management of business risks of the innovative activity in Russia were characterized.

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## **Transformation of IMF Relations with Developing Countries in the Context of Globalization**

**Keywords:** IMF; mechanism of structural changes; credit tightening mechanism; stabilization policies; reform program.

page 106-111

**Abstract:** This paper analyzes the changing role of the International Monetary Fund (IMF) with the deepening of the process of globalization. While noting the contrast of the existing IMF to the one operating in the 1940-1950-s, the author examined the driving factors affecting the change of the IMF role. The author states that IMF does not fulfill all of its functions but still continues to work because it, together with the World Bank is a means of ensuring the hegemony of international capital in the 'Third World' countries.