

## Biological Sciences

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### **Vegetation of Southeastern Part of the Bolshezemelskaya Tundra**

*Keywords and phrases:* Bolshezemelskaya tundra vegetation; oil and gas development; tundra; types of vegetation.

*Abstract:* The development of oil and gas in the Arctic tundra regions is accompanied by negative impacts on soil and vegetation, a striking example is the area in the southeastern part of the Bolshezemelskaya tundra. Due to the remoteness and inaccessibility these territories have hardly been studied, there are no comprehensive data on the state of soil and vegetation. It is important to study soil and vegetation so as to address effectively the environmental problems of hydrocarbon deposits development and prevent further negative environmental situation in the region. To accomplish this, the Department of Transport and Storage of Northern Arctic Federal University in the last ten years, since 2003, has carried out systematic monitoring of environmental components. In general, vegetation of the southeastern part of the Bolshezemelskaya tundra has been allocated six different types of vegetation. The most common species are willows *Betula nana* and *Salix glauca*, shrubs *Ledum decumbens*, *Empetrum hermaphroditum*, *Vaccinium vitis-idaea*, sedge *Carex globularis*, genera mosses *Polytrichum* and *Sphagnum*, lichens *Cladonia rangiferina*, *Cladonia arbuscula*.

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*S.S. Sivtsev a*

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### **Content of Biological Cryoprotectants and its Components in Wintering Insects Depending on Temperature**

*Keywords and phrases:* adaptation to cold; carotenoids; cryoprotectants; glycerol; overwintering insects; temperature effect.

*Abstract:* One of the mechanisms of adaptation to prolonged exposure to cold is to develop specific cryoprotective compounds in wintering insects. In wintering caterpillars *Aporia crataegi* L. accumulation of multi-component compound with cryoprotective properties was found in the tissues. A significant portion of the selected compound is glycerol. The dynamics of biological cryoprotectant content and its components in insects depending on temperature changes was investigated.

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## Biotechnology and Medicine

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*Republic Clinical Hospital, Makhachkala*

### **Comparative Analysis of Quality of Life in Patients with Different Types of Herniorrhaphy**

*Keywords and phrases:* fertility; hernioplasty; quality of life; questionnaire.

*Abstract:* The aim of this research was to review the quality of life after different types of herniorrhaphy in patients with inguinal hernia. They were divided into three groups: 116 patients with tension repair according to Bassini technique (musculo-aponeurotic repair), 288 patients with open repair according to Lichtenstein method ( ‘ ‘tension-free’ ’ repair) and 44 patients with laparoscopic hernioplasty. The results of the study were assessed before surgery, after a median follow-up of 4 months, and in a one year postoperatively. In case of laparoscopic hernioplasty a significant improvement in quality of life occurred on the 4th month contrary to other types of repairs (musculo-aponeurotic, tensionless repair). Group III demonstrated the best results 4 months after hernioplasty. The physical component was 2.2 and 1.4 times, and psychic component reached 2.5 and 1.2 times as much as those in the groups I and II respectively.

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### **Complex Treatment of Patients with Adenoviral Keratoconjunctivitis Interferon Inducers**

*Keywords and phrases:* adenoviral keratoconjunctivitis; Poludanum; T sikloferon.

*Abstract:* The paper explored the feasibility of adenoviral keratoconjunctivitis therapy with

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interferon inducers. We examined 78 patients with adenoviral conjunctivitis aged between 17 and 73 years. The patients were divided randomly into 2 groups: the first group received a Poludanum instillations 6-8 times a day (100 mg / 1 ml water), subconjunctival injections for unused in the dose of 100 mg / 0.5 ml. The second group received Poludanum the same pattern as the patients in Group 1 and tsikloferon 2 ml intramuscularly once a day for three days. The studies have shown high therapeutic efficacy of combination therapy (Poludanum + T sikloferon). This combination provides for mutual gain pharmacological effects due to activation of the product  $\alpha$ -IFN and  $\gamma$ -IFN, which significantly reduces the treatment of these patients.

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#### **Features of Medical Therapy of Pregnant Women Suffering from Epilepsy**

*Keywords and phrases:* epilepsy; pregnancy.

*Abstract:* Some features of medicinal therapy of epilepsy during pregnancy are described in the article.

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*A.V. Gorozhnkin, O.V. Mareyev, I.I. Sholomov*

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#### **Videostabilometry in the Assessment of Postural Disorders in Menier's Disease**

*Keywords and phrases:* Meniere's disease; postural disorders; vertigo; videostabilometry.

*Abstract:* The results of assessment of videostabilometry characteristics in 37 patients with Menier's disease are given compared to the control group. The usability of this method for objective assessment of balance system is grounded.

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#### **Features of Skin Structure in Patients with Diabetes (Morphological Study)**

*Keywords and phrases:* diabetes; skin; structure.

*Abstract:* The morphological structure of the skin of femur stump in 58 patients after lower limb amputation was studied. The obtained results of the study of histological preparations indicate the presence of initial degenerative processes in the tissues of patients with diabetes, as well as their progression after surgery, which slows down the healing of surgical wounds.

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## **Pedagogy and Psychology**

*N.I. Balchyunene*

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#### **Brief Review of Works by Russian Scientists in the Field of Evaluation of the Finnish Education**

*Keywords and phrases:* education; evaluation; Finnish experience; globalization.

*Abstract:* We show that the Finnish experience in the development of education should be used for the development of Russian education in the context of globalization. It is advisable to focus further research in the study of the Finnish experience of preschool, school, undergraduate and postgraduate education.

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#### **Theoretical and Methodological Bases of Experimental Psychological Research into Professional Work**

*Keywords and phrases:* experimental research; professional work; system man-machine.

*Abstract:* The article considers the process of developing and selecting the parameters that have descriptive power in experimental psychological research of activity. The problem of lack of correspondence between the designed and real effectiveness of the system man-machine is analyzed. This problem determines the area for the research of activity.

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**Pedagogical Conditions of Professional and Creative Development of Future Music Teachers**

page 45-47

*Keywords and phrases:* music teacher; pedagogical conditions; professional and creative development.

*Abstract:* The paper discusses the pedagogical conditions to increase the efficiency of training of future music teachers for professional and creative activities.

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**Typological Features of Teachers within Ontological Pedagogical Education Model**

page 48-51

*Keywords and phrases:* ontological pedagogy; semantic educator; subject educator; subject-value semantic space; teacher; value educator.

*Abstract:* The article considers ontological pedagogy and its educational opportunities in the development of value-semantic space of an individual; the authors describe the results of empirical research enabling to isolate and characterize typological features of teachers.

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**On Pedagogical Technology of Competence Approach in Teaching**

page 52-54

*Keywords and phrases:* competence approach in teaching; educational technologies; module-rating teaching technology; student rating.

*Abstract:* The paper describes the model of education system implementing competence-based approach in education and its main elements. The authors consider modular-rating technology of training and supervision of students' progress as a technology promoting the development of skills determined by learning objectives.

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**Psychological Features of Interrelation of Perfectionism and Procrastination with the Types of Students' Attitude to Dangers**

page 55-59

*Keywords and phrases:* perfectionism; procrastination; sensitivity to threats; types of attitude to dangers.

*Abstract:* The article deals with interrelation of perfectionism and procrastination with the types of students' attitude to dangers. It is found that students with adequate attitude to threats often show expressed perfectionism and moderate procrastination. Other combinations of perfectionism and procrastination cause anxious or ignoring types of attitude to dangers.

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Perm Military Institute of the Russian Interior Ministry, Perm

**Improving Methods of Teaching Sciences**

page 60-63

*Keywords and phrases:* cognitive balancing; searching dominant; signal prompt; transduction.

*Abstract:* The article discusses some methods of teaching sciences. Special attention is paid to giving "signal prompt" to the audience before learning subject matters.

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**Project Technology in Teaching the Russian Language to Arabic Speaking Students**

page 64-69

*Keywords and phrases:* information and communication technologies; lesson-performance; products; project-based learning; reception.

*Abstract:* This article describes the experience of organizing distance forms of work with textual material within the developed by the author electronic textbook «7+I» adapted for Iraqi students of primary education stage.

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**Students' Social Activism in the Context of Urban Physical Space  
(Results of Sociological Studies in the Altai Krai)**

page 70-73

*Keywords and phrases:* college students' youth; social activism; social adaptation; urban space.

*Abstract:* In this article physical urban space is viewed as a projection of social space. The author describes the results of sociological studies of youth social activism (charity, volunteer work) in the context of urban physical space. Social activism forms are classified by time perspective, object of care and way of realization. The author concludes that students' social activism is primarily a short-time action activity approved by the society.

## Professional Training

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### **Pedagogical Conditions of Developing Communication Competence in the Future Bachelors of Education**

*Keywords and phrases:* competence in the field of pedagogic communication; cross-curricular integration; interactive methods of teaching; pedagogical conditions.

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*Abstract:* The paper discusses the pedagogical conditions of developing communication competence in the future bachelors of pedagogical education, including: 1) implementation of the interdisciplinary integration of psychological and pedagogical disciplines; 2) implementation of the course 'the Basics of pedagogical communication' in the educational process of the university; 3) application of interactive methods and forms of education in the educational process.

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### **Distance Learning and Information Technologies in Education**

*Keywords and phrases:* benefits of distance learning; distance learning; education; information technologies; methods.

page 78-80

*Abstract:* The article is devoted to the role of distance learning in the education system. Problems, advantages and disadvantages of distance education are given. The statistical analysis of fee-paying graduates of Lesosibirsk Affiliate of Siberian State Technological University for the last 7 years has been made. The given investigations suggest that there is a decrease in the number of fee-paying students studying at Lesosibirsk Affiliate.

*T.A. Zhukova*

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### **The Development of Multicultural Education in Germany**

*Keywords and phrases:* comparative research; multicultural education; transformative model.

page 81-85

*Abstract:* The author analyzes the important problems of multicultural education development in Germany. The necessity of the implementation of the transformation teaching model is shown. Its development and improvement is possible under the conditions optimization of comparative research.

## History, Philosophy and Sociology

*U.I. Deryabin, V.A. Deryabina*

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### **The Problem of Relationship between Sign and Symbol of Individuality**

*Keywords and phrases:* individuality's symbol as value ideals; integrity; self-development of individuality; semiotic status of individuality symbol; symbol as sign.

page 86-88

*Abstract:* The paper discusses why it is necessary and to what extent axiological synthesis of symbolic relations of individuality in the context of contemporary culture is possible. It has been proved that self-development of individuality actively affects symbolic signs, transforms them according to their nature, as a result of which the latter acquire new features.

*A.A. Efanov*

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### **Moral Panics as a Dysfunction of Internet Communication**

*Keywords and phrases:* convergence; Internet; media destructiveness; media revolution; moral panic.

page 89-92

*Abstract:* The article is devoted to current tendencies in the development of mass communication. The thesis concerning the Internet primacy as a main agent in the formation of the modern stage of the convergence process has been confirmed. The mechanisms of moral panics construction in the Worldwide Web have been studied, and as a result the supposition concerning media destructiveness that is inherent in the nature of the mass media has been actualized.

*E.D. Korikiya, A.K. Mamedov*  
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#### **New Contours of Social Inequality: Trends of Formation**

*Keywords and phrases:* creativity; education; heterogeneity; information; information inequality; information society; intelligence; knowledge; science; society; status.

*Abstract:* The article postulated the thesis that in today's society based on the new resources such as knowledge and information, there is an implicit extension of social inequality. This is due to wide access to information capacity, as well as the presence of significant qualities of new socio-cultural phenomena such as inexhaustibility and infiniteness, that are systematically associated with different properties, including selectivity. As a result, in the information society belonging to the upper class is determined for the first time in terms of the new criteria: intelligence, creativity and brightness of personal principle.

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#### **About Development of Appraisal Theory in the USA (Way from Professional Methodology to Social Epistemology)**

*Keywords and phrases:* administrative value; appraisal; archives in the USA; artifactual value; evolution of archival theory in the USA; historical value; informational value; intrinsic value; re-appraisal; evidential value; records of appraisal concepts; primary value; secondary value.

*Abstract:* This paper examines the evolution of the theory of documents' appraisal in the United States; based on the observations of the development of this archival theory direction a periodization was proposed, which included five periods: 'Critique of the outstanding British archivist Hilary Jenkinson' (the mid-1930s to the mid-1950s), 'Classical theory' (mid 1950s - mid 1960s), 'Schellenberg criticism' (mid 1960's - end 1970's), 'American archival theory revision' (the 1980s - 1990s), 'the formation and development of the theory of electronic documents' appraisal' (the late 1990s - the early 2000s.). Each period is characterized by the works of American scholars. Peculiarities of each period are emphasized and key representatives of the American archival science, who work in the direction of the documents' appraisal, are mentioned. The author pointed out a modern trend to revise values in American archivistics in the light of social epistemology. Particular attention is paid to the type of the value of documents: primary, secondary, evidence-based, administrative, informational, historical, as well as the values of the original document in its physical form.

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*O.M. Manzhuyeva*  
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#### **T. Bynum's Three Levels Of Computer Ethics**

*Keywords and phrases:* computer ethics; computer technology; human values.

*Abstract:* The paper explores the ethical aspects of computer technology. The three levels of the T. Bynum's computer ethics ensuring the solution of ethical problems in the use of computer technology have been reflected.

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## **Philology**

*E.N. Gorbachev a*  
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#### **Verbal Representation of Values/Antivalues in Lawyer's Discourse (Based on the English Language Texts)**

*Keywords and phrases:* appeal to values/antivalues; lawyer's discourse; performativity; verbal representation of values/antivalues.

*Abstract:* The paper considers performativity of lawyer's discourse which consists in changing the value status of the object and the addressee of the given communication.

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Performativity is achieved through appealing to particular social and discourse values / antivalues by means of imperative, assertive and declarative speech acts.

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**The Problem of Defining Discourse as an Object of Linguistic Analysis**

*Keywords and phrases:* communication; communicative linguistics; context; discourse; situation; text.

*Abstract:* The article investigates the main notions of discourse, the history of formation of discourse as a new branch of science, which studies social opinion. Discourse is also considered to be one of the complex communicative phenomena, which includes both the text and extra-linguistic information.

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## Mathematical Methods and Models

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**Asymptotic Solution of the Boundary Value Problem of Electrodifusion Equation Modeling Process Electromembrane Cleaning of Bedded and Waste Water**

*Keywords and phrases:* mathematical modeling of electromembrane processes of water purification; sewage.

*Abstract:* Development of effective methods of preventing environmental pollution by sewage requires mathematical modeling of various processes of water purification, including electromembrane one. The authors propose a method of asymptotic solution of the system of decomposition equations within mathematical models of electromembrane processes of water purification for binary, ternary and tetrary types of electrolytes, offering the possibility of approximate solution of boundary tasks for more difficult systems of electrodiffusive equations.

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## Management, Computer Engineering and Information Science

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**The Method of Constructing the System to Respond to Traffic Accidents on the Basis of Set of Theoretic Concepts**

*Keywords and phrases:* condition; event; methods for constructing systems to respond; response system; road traffic accidents; set theory.

*Abstract:* The emergence of modern telematics technology has provided technical capabilities to create effective automated systems to respond to traffic accidents and identified the need to create science-based approaches to develop methods for constructing these systems. In the article, this approach is seen as a set theory, the use of which is justified to describe processes with multiple events (states), which corresponds to the actual events observed in the transport process.

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## Economic Sciences

*Z.A. Voitleva*

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**Efficiency of Agricultural Production as a Criterion of Optimality of Its Organizational and Economic Structure**

*Keywords and phrases:* agricultural production; efficiency; optimization; organizational and economic structure.

*Abstract:* The author clarified the essence of the efficiency of agricultural production as a criterion of optimality of its organizational and economic structure, and justified the choice of performance criteria. In addition, a classification that includes technological, social, economic, environmental, financial, and institutional measures has been developed.

page 133-136

*N.V. Levkin*

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**Behavior Models of Strategic Investors in the Global Economy**

*Keywords and phrases:* model of behavior; strategic investor.

*Abstract:* There is no analysis of basic behavior models of strategic investors within the framework of economic science. The objective of this article is to fill in this gap by providing the following models: classical, neo-liberal, neoinstitutional and corporatocratical ones.

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**Transaction Costs in the Labor Market: Concept, Content and Importance**

*Keywords and phrases:* behavior; employee and employer; labor market; transaction costs.

*Abstract:* The article deals with the conceptual determination of transaction costs in the labor market. The author suggests a definition of transaction costs in the labor market and describes the content of each type of transaction costs within the framework of the proposed classification.

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*I.R. Shegelman, D.B. Odilis*

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**Organizational Changes in Forestry Sector in Russia's Economy in 1917–1927**

*Keywords and phrases:* forest sector; fuel wood; organizational change; wood.

*Abstract:* We examined the organizational changes implemented by the government in the forestry sector in the years 1917–1927 that helped to overcome acute energy crisis in the country.

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## Legal Science

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**Legal Culture and Problems of Legal Activity of Penitentiary System Staff in Russia**

*Keywords and phrases:* legal activity; legal culture; legal education; staff of penitentiary system.

*Abstract:* This article reveals the problems of legal activity and legal culture in the process of professional activity of the staff of penitentiary system. The highest level of the legal culture of an individual is legal activity.

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## Legal Regulation

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**Human Rights: Particularities of Interaction of the European Union and the Council of Europe**

*Keywords and phrases:* Council of Europe; European Convention on Human Rights; European Union (EU); Human Rights; Ministry of Foreign Affairs of the Russian Federation; Russia.

*Abstract:* This article analyzes the functioning of the European Union and the Council of Europe in the field of the human rights protection. Based on shared values, Council of Europe and EU use different instruments in this area. The article assesses the nature and effectiveness of the interaction between Council of Europe and the EU at the present stage.

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## Political Science

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**Software Information Security Company in the Context of the Political Process**

*Keywords and phrases:* globalization; information security; information society; information warfare.

*Abstract:* State policy to ensure information security of the Russian Federation forms the

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activities of state power bodies and administration in the field of information security, including the guarantees of the rights of all stakeholders to the information, securing the duties and responsibilities of the state and its agencies for the security of the country. It should be based on a balance of the interests of individuals, society and the state in the sphere of information.

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#### **Information Threats in Political Sphere of Russia: the Role of Information Policy**

*Keywords and phrases:* armed conflict; information policy; information security; information threats; public opinion.

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*Abstract:* Modern state and the role of information policy in Russia is the most important mechanism for addressing the problems of the state. The removal of information threats is now becoming the most important factor of citizens' well-being, as well as stability of the state as a whole. Balance of interests of an individual, society and the state is ensured by information resources in the framework of information policy.

## **Proceedings of the 4th International Scientific Practical Conference**

### **«Prospects and Pace of Scientific Development»**

### **Social Economic Problems of Society Development**

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#### **Prospects for the Development of Integration of Turkic States in the Global Economic System**

*Keywords and phrases:* integration; regionalization; Turkish-speaking countries; world economic system.

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*Abstract:* This article considers the integration of Turkish-speaking countries in the world economic system. It is noted that the developing processes of globalization and regionalization include Turkishspeaking states that have made a significant contribution to world civilization by its rich history.

*A.V. Taymazov*

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#### **Priority Problems of Social Development: the Key Link of Institutional Modernization of the Russian Economy**

*Keywords and phrases:* business and population; institutional modernization of the Russian economy; interaction of agents of the power; priority problems of social development; value-oriented development of society.

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*Abstract:* The paper is devoted to the questions of modernization of institutional architecture of interaction of agents of power, business and public structures in the course of solving major problems of social development. It is a question of new institutes which have to be based on value-oriented interaction of economic agents in conditions of post-industrial society. The author of the article proves an important role in rooting of new institutes with a special status of 'priority problems of social development'.

## **Progressive Pedagogy**

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#### **Multicultural Educational Environment as the Basis of the Improving Youth's Intellectual and Creative Abilities' Development**

*Keywords and phrases:* communicative skills; intellectual and creative abilities; multicultural environment; system and prognostic thinking.

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*Abstract:* The article deals with the term "multicultural environment" of a higher educational institution that initiates the improvement of system of developing youth's intellectual and creative abilities. The "multicultural environment" also stimulates ICT skills development.

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**Discipline Problems in the Works of Domestic Thinkers in Late XI – Early XX Centuries**

*Keywords and phrases:* discipline; education; humanistic approach; moral orientation; personality; progressive pedagogy.

*Abstract:* The problem of discipline of an individual can be classified as universal, eternal and general scientific one. It has excited the minds of scientists since the emergence of society. In the article the views of domestic thinkers on education issues have been discussed. The authors note the crucial contribution of the supporters of the idea of humanistic approach to developing discipline. It is emphasized that the development of moral orientation promotes the formation of human personality.

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**Formation of Pupils' Aesthetic Reflection of Reality by Means of Fine Arts**

*Keywords and phrases:* aesthetic development; creative activity; culture; education; moral-aesthetic outlook; systematization.

*Abstract:* The successful solution to the problems of pupils' education by means of fine arts depends on the unity of education and training, systematic training of pupils' special knowledge, abilities and skills. 'Fine arts' in the primary school is a stage of aesthetic development of an individual. The content of the lessons of fine arts reflects the specifics of arts in the process of artistic creation, allows solving tasks of moral, aesthetic, labor education of schoolchildren. The expressive means of the language of art are imbued with aesthetic content and act as figurative expressive means of reproduction of reality in artistic creativity of a child.

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**Environmental School as a Form of Developing Environmental Culture through Foreign Language Teaching**

*Keywords and phrases:* ecological culture; ecological education; ecologization; environment  
Environmental School; environmental education; foreign language.

*Abstract:* This paper deals with the problem of current environmental education in teaching foreign languages. We consider the importance of creating a school environment as the essence of cultural and linguistic development of students through the educational potential of a foreign language.

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## **Important Issues of History, Psychology and Sociology**

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**Evolution of the Organizational Theory: Development of Models of Organization**

*Keywords and phrases:* closed models of organization; mechanistic model; open models of organization; organic model; organization; situational approach; system approach.

*Abstract:* The paper is devoted to the system analysis of various models of organization created throughout the 20th century. It is considered how the views of scientists in the field of the organization theory changed on the nature of the organizations, mechanisms of their functioning and development. The main groups of models are allocated; tendencies of development of scientific views on the organization are disclosed.

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