

# SUMMARY

**D.G. Rodionov, I.A. Rudskaya, O.A. Kushneva**

## **How Key Russian Universities Advance to Become Leaders of Worldwide Education: Problem Analysis and Solving**

The paper studies in detail and analyze local rankings by faculty and by subject according to the QS World University Ranking. The paper also suggests a method to clearly display a university status by faculty and by subject. A comparative analysis of leading world universities' performance has been done by faculty and by subject. The ways to increase performance of national universities by faculty and by subject are looked into, as well as the ways for them to advance in the world rankings.

**Key words:** ranking, competitiveness, performance, global education market.

**V.V. Nikiforov, N.A. Krivitch**

## **Preliminary processing of not digitized sources – a way of more effective use of book and journal fund**

The two-level method of digitization of the library book and journal stock which hasn't been presented in a cyberspace is offered. At the first stage metadata/tags (the bibliographic description, key fragments) are formed. They serve for display of a source in a cyberspace. At the second stage the full works complex on source digitization becomes. All publishing operations on preparation of a source for electronic publication become. This method will provide considerably smaller expenses for informing on the sources which haven't been presented while in electronic form. The amount of inquiries to initially digitized sources will allow to optimize sequence of their further full digitization. The offered method allows to avoid the legal collisions concerning copyright.

**Key words:** copyright, library, information paper, book and journal fund, metadata, not digitized sources, sequence of digitization, digitization of books, server, tag, citation.

**V.A. Zolotuchin**

## **Knowledge management of a public service on the basis of distance education technologies**

The problems of knowledge management in the organization. The possibilities of the use of distance learning technologies civil servants. In this context, discusses the practical aspects of organizing learning: Information management process. Formal training management process. Management of independent study work. Self-learning and self-government development.

**Key words:** education technology, programmed learning, the new information technology training, computerization of education.

**E.V. Nikolaeva**

## **Fractal Dynamics of Fashion**

Stochastic recurrence of fashion is considered from the position of the fractal theory. The author suggests a hypothesis about fractal nature of fashion dynamics and its correspondence to strange attractors' models.

**Key words:** fashion, fractality of fashion, socio-cultural dynamics, conceptual fractal, cultural theory, strange attractors

**S.U. Kornekova, E.D. Abdulkhamidov**

## **Retarded animal husbandry is a threat Russia's food safety**

The article is dedicated to the analysis continuous crisis in the agrarian sector of the Russian Federation and, first of all – animal husbandry. It is emphasized that the national projects in the agrarian sphere focus on indices of physical volume of production, while the economic ka agrarian business, and also use of modern technologies actually OST is out of sight. Advocated the necessity of strengthening of protectionist measures in regard to the livestock because of its backwardness is a real threat to food security of the country.

**Key words:** agrarian production, cattle, pigs, sheep, feed supply, competitiveness, protectionist measures, food security.

**Ya.Yu. Gurova**

## **I.A. Vsevolozhsky: the documentary sources about life and activity**

Article submits the review of documentary sources in which biographic data are reflected, the facts about activity and I.A. Vsevolozhskogo creativity – the prominent government official, the artist, the playwright, the screenwriter. I. Vsevolozhsky left a considerable trace in the history of the Russian musical theater. He was the initiator and the coauthor of a number of works of prominent composers. Being the Director of Imperial theaters, the Imperial Hermitage, it has considerable impact on creativity of outstanding composers: P.I. Tchaikovsky, N.A. Rimsky-Korsakov, A.K. Glazunov and others. The name Vsevolozhsky is inseparably linked with ballet theater of Petersburg of the second half of the XIX century. Article is part of large-scale research about destiny and activity I.A. Vsevolozhsky.

**Key words:** archival sources, Glazunov, Petipa, Rimsky-Korsakov, Russian musical theater, Tchaikovsky, Vsevolozhsky.

### Toys of Grand Dukes

Daily live of grand dukes have been characterized in this article. Play and toys of Grand Dukes have been analyzed, the analysis of kid's toys symbols has been carried out.

**Key words:** heir to the throne, grand dukes, imperial family, upbringing, toys.

S.I. Bondina

### Parents of foster-children of Saint-Petersburg and Moscow Foundling homes in the first half of the XIX century

The article considers the laws of Foundling homes on the care of children. The purpose of this article was to follow the policy of these institutions in relation to parents who give their children at home and also to identify their social and professional staff. From the study of this problem used the comparative-historical method – comparison of Saint-Petersburg and Moscow Foundling homes. In the course of the study involved the materials of the RGIA and TsGIA SPb. The sources of the TsIAM are used for the first time. The author came to the conclusion about the different social composition of petitioners. If among the recipients of the St. Petersburg dominated urban residents (soldiers wives, lesser townspeople, raznochintsy and officials), the Moscow Foundling home parents came mainly from rural environment, because of this were a few requests for adoption of the children back to the family, they sent mostly distant relatives or godparents.

**Key words:** Department of empress Maria, Foundling homes, charity, poor relief.

I.V. Pykhalov

### "The enemy, the spy and the saboteur crossed the border..."

Examples of espionage and terrorist activity of white emigrants in the 1920s in the NorthWest of the USSR are reviewed. The letter of the English spy of Sidney Reilly to N.P. Stroyevoy is for the first time published.

**Key words:** white emigres, OGPU, Sidney Reilly, N.P. Stroyevoy, terrorism, espionage.

I.V. Petrov

### Soviet repressions against Baltic Orthodox priests in 1940–1941

The problem of Soviet repressions against Orthodox clerics in the Baltic Lands in 1940–1941 is the subject of the article. Main phases of repressions against the clergy are viewed by the examples of concrete fates of pastors and laymen. The key materials for writing were Lithuanian archival storages, such as Lithuanian Special Archive and Lithuanian Central State Archive and Estonian archival storages, such as Estonian State Archive.

**Key words:** Soviet repressions, Orthodox Church, Orthodoxy in the Baltic Lands.

N.S. Chernyakova

### About the scientific status of humanities: to the solution of a problem of the methodology

The main idea of the article is that after a detailed criticism of the neopositivistic theory and methodology of science the problem of demarcation between science and humanities remains to be unsettled. It's asserted that immaterial as an object of humanities is different from all the objects of science and that it determines the special position of humanities in relation to other forms of human knowledge. To be a research of the value content of human activity and it's results the humanities is based on the interpretation of the material carriers of meanings and creates a new meaning as an unavoidable condition of the understanding of any cultural texts or products.

**Key words:** interpretation, immaterial, humanities, science, subject-object relation.

T.Yu. Artemenko

### Affect in structuralism: conceptualisation of bound

Is the conceptualization of affect possible in the frames of structuralism? In this article two different options are presented. According one tradition affect is opposed to procedures of signification and is linked with authenticity as guarantee on subjectivity. According another tradition affect is presented as principle of disorder and de-centration, that are considered also as fundamentals of subjectivity. So the difference of two approaches is grounded on the difference of understanding subjectivity.

**Key words:** Affect, Other, internal and external, authenticity, representation.

I.S. Tomashevskii

### Typology and classification as methods of grouping cultures: analyzing Moses Kagan's theory of culture

The problems of grouping methods are studied. Early and late viewpoints of Moses Kagan are analyzed. Typology is defined as a pattern of degree concepts. Classification is defined as a pattern of generic and specific concepts.

**Key words:** grouping methods, typology of cultures, classification, typology, modelling.

O.Y. Gelich, K.V. Sultanov

### Person in the social management system: philosophical and sociological analysis

Is management the social phenomenon that undermines freedom of human nature and its vitality? Or Management is the social phenomenon and the human invention by means of which the power of humanity is increased as well as each individual who finds in the managed organizations his own unique place, vocation, opportunity to show their unique abilities?

**Key words:** management, individual, freedom, power, violence, organization, justice.

### Uncontrolled migration: new migration of people or globalize urbanization?

The paper analyzes the current problems of the modern world : migration , mass migration , the formation of cultural and religious enclaves etc. Ranked as the current situation and distant historical perspective . The author briefly notes the scientific concept , originally broadcasting migration problem in the area of social science. Considering the social, cultural, labor and denominational character of migration, the author convincingly shows that both concepts – and globalized urbanization and Migration Period can be applied to characterize the ongoing social processes.

**Key words:** migration, labor migration, urbanization, modernization, social communities, social transformation, globalization.

K.Yu. Eidemiller

### Place and role of a Muslim community in political life of countries of Northern Europe on the example of the Netherlands

Muslim communities in the states of Northern Europe, in a context of geographical distribution of Islam, it is accepted to perceive as a gain of policy of multiculturalism and tolerance, and to refer their emergence in the region exclusively to the historical period beginning with the last quarter of the XX century. In article the state-of-the-art review of political and social and economic events of this period is provided in the Netherlands which allows to make additions to the general assessment of operating political processes and to approach to a question of allocation of the main directions of transformation of political and sociocultural space of Northern Europe.

**Key words:** Muslim community, multiculturalism, tolerance, political processes, sociocultural space.

A.S. Galoyan

### Westernization or alternative ways of development of globalization processes?

The article covers an analysis of two main alternatives to the contemporary global westernization – various national strategies of globalization and the alternative globalization movement.

**Key words:** globalization, westernization, social development, cultural values, ethnical and national identity, national globalization strategy, alternative globalism.

A.S. Kostyakhin

### Failure of the idea of the united national front: Matilal Nehru's Constitution presented at the All-India National Convention (December, 1928 – January, 1929)

The All-India National Convention presented Indian political sources with a dilemma: either to give priority to a narrow party or the national interest. Politicians decidedly came out for the good of India, but all they had in mind was their own benefit. Such choice was due to the lack of Indian society as a single unit rather than groundless political ambitions.

**Key words:** constitutional history of India, The All-India National Convention of 1928-1929, Matilal Nehru's Constitution, united national front idea, «colonial problem», «communal problem», «princely problem».

K.A. Neverov

### “Old” and “new” left in Latin America: Brazil and Venezuela cases

Left turn that occurred in some of Latin American states in early 2000s divided leftists of the region on “old” and “new”. The article examines the ideological features of the ruling parties of Brazil and Venezuela, their distinction from the “old” lefts.

**Key words:** ideology, “old” left, “new” left, Brazil, Venezuela, Lula da Silva, Hugo Chaves.

N.V. Shkira

### “Hydrocarbon geoeconomics” of Turkey: Russian vector

The article focuses on problems related to natural gas transportation and consumption taking into account interest of the biggest Russian gas concern “Gazprom”. “Gazprom” is going to meet a keen competition on Turkish natural gas market with Iran, Azerbaijan and Egypt in nearest future. The author evaluates comparative advantages of various logistical routes and gas pipes, giving attention both to implementation of Russian projects and to “South Corridor” politics with “Nabucco” pipeline, which is being carried out by EU leaders.

**Key words:** geoeconomics, Turkey, natural gas, Gazprom, Nabucco.

M.C. Tezic

### Examining Russian (Soviet) ethnos theory through constructivist perspective «primordial constructivism»

This article is based on two questions: First examination of the Russian concepts ethnos ethnichnost and comparing with the western concept ethnicity.

The second subject matter of this article is studying the character of ethnos, which has primordial phenomenon, through constructivist outlook.

**Key words:** Soviet ethnos theory, ethnicity, primordialism, constructivism, ethnic self-consciousness, ethnogenesis.

### **The state holidays in the history of culture of Russia and E. Hobsbaum's concept of «The tradition invention»**

State holiday is a special phenomenon that provides the constitution of the civil community. Analyzing it as a form of «invented tradition» the distinctive features of public celebrations are emphasized in the article. The state holiday calendar is introduced as a mechanism that creates «imaginary community». The study looks forward to the history of public holidays in Russia as a way of legitimizing the government. In the study the distinctive features of Russian state holidays of XVIII century, state-dynastic holidays of XVIII–XIX centuries, festivals and celebrations of the Soviet period of the Russian history and modern holidays are also emphasized.

**Key words:** the invention of tradition, imagined community, state holiday, holiday culture of Russia, holiday calendar.

**O.M. Kiriljuk**

### **Labour and peculiarities of socialization of youth in labour activities**

The paper analyses the views of researchers about evolution of the attitude of the employer to labour and satisfaction with it at different historical stages. The main indicators of success (or its lack) of labour socialization are reviewed. Empirical part covers the results of sociological research of labour socialization of youth at the call center «J\*\*\*» of St. Petersburg.

**Key words:** job, labor, job place satisfaction, human, job place, satisfaction marks, labor socialization, labor employment of students.

**T.N. Kamilova**

### **The problems of social adaptation of neglected and homeless children in modern Russia**

The article discusses the evolution of scientific views on the interpretation of the terms «Street», «street children», «street children», «street youth», «risk», look at the specifics of the sociological approach to research issues. Reveals intrinsic content of theories of the classics of Sociology of Emile Durkheim, e. t. Parsons, r. Merton, m. Weber, the methodological basis for studying the problems of maladaptation. According to the author, the process of socialization of street youth is a deformation of the main institutions of socialization, the family and the school, resulting in distortion of the moral consciousness, in particular, the notions of good and evil, a range of needs, primitivization interests. For neglected and homeless adolescents have a low degree of social normativity, ignoring the existing rules, which confirms the validity of cultural explanations, according to which the deviation occurs when the individual identifies.

The process of stratification of Russian society, determining the heterogeneity and the polarization that threatens instability leads to the neglect and exclusion, makes the task of overcoming them.

**Key words:** adaptation; exclusion; deprivation; anomie; vagrancy; neglect; homelessness; deviance; «street children»; risk groups; socially disadvantaged families.

**E.A. Apanasenko**

### **Modern approaches to concept «extremism» definition**

Problems of definition of extremism as legal definition and socio-political phenomenon in international legal acts, Russian law, the Russian law and political science are considered.

**Key words:** extremism, legal definition, national security, socio-political phenomenon.

**A.S. Ratnikov**

### **Functioning of international funds in Russia in the field of cultural policy**

The article is devoted to the establishment and development of international funds in Russia since 1990, the analysis of the formation of the practice of their activities in Russia and identify the nature of perception and forms of reaction of the authorities and the population.

**Key words:** international funds, culture, cultural policy, state funds.

**T.C. Gabanova**

### **Some facts from the history of the buryat-russian bilingualism and trends of its development**

The article examines the problem of bilingualism in multinational society, considering the history of the Buryat-Russian bilingualism, positive and negative points of the phenomenon, ways to revival of the Buryat language use today.

**Key words:** bilingualism, the Buryats, the Buryat language, Siberia, «inorodchesky», ethnic identity, competence, globalization.

**L.E. Artamoshkina**

### **Personal experience in history: author/personage in space of biographical writing**

The article deals with the problems of translation a personal experience into storage of cultural memory and the way to keep it there. The concept of biographical writing helps to understand the way of such translation and may be used as a method to analyses such a processes.

**Key words:** biography, writing, author, personage, narrative, memory, image, history.

## Experimental analysis emotions of singing voice and it's application in the art of sound producer

This article deals with the results of research of emotional expressiveness in singing of various performers. Interactions of basic emotions with variation of acoustic parameters are described, synthesis of emotions cues based on unemotional recording is presented, and applicability area of experimental research of emotions in singing voice in the art of sound engineering is emphasized.

**Key words:** singing voice, emotional characteristics, acoustic parameters, singing synthesis, the art of sound producing.

I.I. Yugay

## Art by phone: art strategy of the media art

The article gives generalized characteristic of using phone, as one of the most widespread means of communication, in experiments of art vanguard. Author proves that there is a connection between the theme of art objects, the creative tasks solved by artists and features of technical means functioning in culture, the public opinion about the media. The author pays special attention to analysis of the forms of collective creativity and application in art elements of the game.

**Key words:** art practice; media art; art; phone; telephone art; communication in art.

S. Buntasanakul

## Web documentary: the expressive potential of multimedia environment

This article discusses the features of multimedia elements in web-documentaries and analyzes their expressive abilities. The author draws on the global practice in the field of unfabled interactive narration, and on the experience of creating his own multimedia documentary projects.

**Key words:** interactive documentary, web-documentary, multimedia environment, interactivity, multimedia, expressive means.

V.A. Kutz

## Cultural immunity as advanced line of informational self-defence of Russian culture and Russian intelligence

Definitions of terms of cultural immunity, information weapons, information warfare are clarified. The tools and methods of informational defense, and priority of defense are identified. It is shown that the ideas displaying the deep foundation of Russian culture and embodied in life, are the cultural immunity. It is shown that the preservation of self-identity – a process (function), in which the cultural immunity is the argument. Ways of mastering of cultural heritage with a view to the formation of cultural immunity and preservation of self-identity of Russian superethnos defined.

**Key words:** deep foundation of Russian culture, informational war, cultural immunity, cultural heritage, self-defense systems, self-identity, self-regulation.

F.F. Korochkin

## The Axiological Meaning of the "World Center" Concept in the Ancient and the Medieval Cartography

During the Middle Ages with a Christianity as a key construct of the weltbild, the concepts of the map center and the world center became especially axiological-based. The center of the map moved towards Jerusalem, and a map became not only the topological and chronological unit, but also an axiological guide to the world. Analysis of all of the semantic plans of the medieval mappamundi is only possible using the concept of subject. The subject only could absorb all the semantic plans together through understanding the center of the map as the center of the world.

**Key words:** historical aesthetics, mappamundi, worldview, weltbild, philosophy of space, medieval cartography, pilgrimage.

A.V. Bubentcova

## The Petroglyphic Cultural Heritage of the North-West of Russia: Semantics of the Rock Carvings of the Lake Kanozero Site

The article is devoted to the problem of semantic interpretation of the rock images of Kanozero lake. The significance of the work comes from the insufficient knowledge of the semantics of these petroglyphs. To decrypt the meanings of the rock images, the universals of the world mythologies, the materials of archaeology, ethnography and study of folklore are considered. In the course of semantic analysis, groups of myths presented in the rock art of Kanozero lake, were discovered; new treatments of the subjects, images and individual artifacts of the site are submitted.

**Key words:** Rock art, petroglyphs of Kanozero lake site, petroglyphs.

E.A. Ivanyuk

## Vladimir Emilievich Gorevoy – sculptor of St. Petersburg

The article is devoted to the review of monumental creativity Petersburg's sculptor Vladimir Emilievich Gorevoy. A native of the workshop of M.K. Anikushin, many years collaborated with outstanding master, now Gorevoy works independently, finding his own style. Reviewed and analyzed the major works «Partisan glory»

(1975), monuments F.E. Dzerzhinsky (1981), Alexander Nevsky (2003), Paul I. (2003), A. Betancourt (2003), B.F. Rastrelli (2003), A. Rinaldi (2003), J. Kvarengi (2003), K. Rossi (2003), I. Aivazovsky (2007), O.F. Bergholz (2005), P. K. Klodt (2007). The features of the plastic language of the sculptor were revealed in this article.

**Key words:** V.E. Gorevoy sculptor, monumental sculpture, figurative solutions, state portrait, contemporary sculpture.

**M.E. Eshankulov**

### **On the work and life of Shohnazar Sohibov: to the 110th anniversary of his birth**

The article is devoted to the life and work of prominent figure of the Tajik musical culture Shohnazar Sohobov. In 2013, celebrated his 110th anniversary. This singer, musician, composer has a place in the musical culture of the Tajik.

**Key words:** Shohnazar Sohobov, Tajik instrumental music, Tajik musical culture, Shashmakom, makoms.

**A.A. Lvov**

### **Jean Baudrillard: from production of the aesthetic to consumption society**

In this article the analysis of strategies in consumption society is given, being based upon the papers of the leading critics of the modernity, such as J. Baudrillard, E. Fromm, etc. The characteristic features of the production and consumption of the works of art are grounded upon the example of pop-art. The main implications of the analysis of the order of discourse of the "welfare society" and the legitimacy of the statements in it are offered as well.

**Key words:** consumption society, immanent myth, pop-art, aesthetics of the industrial society.

**A.S. Zagryadskaya**

### **Anthropocentrism as a vector of conversation of christian culture in the renaissance**

The article considers the basic principles of the anthropocentrism in the perception of Renaissance man. The culture of the Renaissance is related with the revival of civilized antiquity: the Renaissance's resort to antiquity is not a mere imitation but review and interpretation in concordance with Christian values. There is one more subject of our interest: Hellenistic philosophy and its popularity in the Renaissance epoch – especially concerning the anthropocentrism. Article shows the Renaissance not only as a historical period, but also as a cultural mechanism, based on the relations between the earthly and the celestial, the old and the new.

**Key words:** Philosophy of culture, aesthetics of the Renaissance, anthropocentrism, neo-Platonism, Pythagoreanism, humanism, harmony, proportion.

**P.A. Vasineva**

### **The concepts of "hero" and "universal personality" in the Antiquity and in the early German romanticism**

The author considers the problem of the hero and the heroic in the modern world, analyzing it in the light of the ideas of early German Romanticism. The concept of personality is seen in the context of the heroic. The romantic hero itself acting as a universal person is to be understood in connection with the ideas of the Antiquity about the nature and the essence of the heroic.

**Key words:** ancient hero, romantic hero, the heroic, a universal personality, philosophy of the Jena Romanticism.

**A.A. Nikonova**

### **Broadcasting of cultural meanings as a justification of the idea of immortality**

In the article is analyzed genesis of the cult of ancestors' worship in ancient times, that allows to reveal the mechanism of occurrence of symbolic understanding of death and immortality in culture. A comparative analysis of the concept of N.F. Fedorov about regulation and resurrection of ancestors and archaeological monuments Mesolithic and Neolithic in the North of Europe allows to reveal the mechanism of reproduction of cultural patterns in ancient times. Transformation of relations of the modern society to cultural heritage, as a result of changes in a person's attitude to death and immortality is analyzed.

**Key words:** cult of ancestors, consciousness, death, tradition, immortality, anthropogenesis, museum, cemetery.

**E.V. Barkova**

### **Role of floristic design in the space of daily occurrence of the modern culture: aesthetics and ecological aspects of the problem**

The article deals with urgent problems of modern aesthetical culture: the aestheticization of environment, the relations between individual tastes and fashion, the role of ecological aesthetics in the context of opposition nature and civilization, natural and artificial. New aspects of mutual penetration of theoretical and practical aesthetics have been revealed on the material of such practical areas of artistic and aesthetic activities as floristic, not fully studied at the level of philosophical researches. The interrelations of floristic and ecological aesthetics in the structure of culture of daily occurrence and the role of aesthetic taste in forming the aesthetics of the spatial environment by means of floristic design are considered.

**Key words:** ecological aesthetics, aesthetic taste, floristic, floristic art, floristic design, floristic object, aesthetic culture, environment, nature, space of the artificial environment, a daily occurrence aesthetic

## Geographical education in the modern school: approaches, content and tools of becoming of methodical competence of geographical education's Bachelors

The article presents the result of long-term research of the problem of becoming of methodical competence of Bachelor of geographical education, based at the Department of Geography teaching methods and local history of Herzen State Pedagogical University of Russia (Russia, Saint -Petersburg).

The authors discovered a new content of the theory and methods of bachelor's teaching and undergraduate education, addressing to decision of the identified problem, from the perspective of task approach. At the heart of the development is laid threefold system –»methodical activity – methodological task – the becoming of methodical competence». The methodology of the researching problem has been selected based on scientific studies of previous years and the variety of methodological approaches and aspects to solving it. Data collection period covers from 2005 to 2011 years. Methods of research were based on the collection of secondary data analysis of state educational standards of higher education, curriculum development, teaching tools, guidelines and other documents governing the implementation of the basic educational program of Bachelor of geographical education, as well as on the use of analysis of the primary sources of data obtained through a survey of students and teachers participating in the experiment, as well as diagnostic results methodical training of students. The theoretical and practical research results are reflected in the content of training programs, programs of practices, programs of training and research activities of students and their state certification included to the educational process of training undergraduate geography education.

**Key words:** higher professional education, methodical task, methodical activity, methodical competence, becoming of methodological competence.

E. Almén

### On Swedish Culture – a course I have not given

The Theory and History of Culture Department of Alexander Herzen State Pedagogical University of Russia took part in a joint Swedish-Russian project, designed not only to enrich the teacher's experience, but also ultimately lead to the modernization of the educational systems in both countries in the middle of 1990s. The project grew, encompassing both the different levels of education and different regions year by year. Active participant of the project – prof. Edgar Almén, head of the Department of Theology and Religious Studies during that period – fifteen years later recalls the events of the past and assesses the experience and changes in educational systems. He provides a comparative analysis of two educational systems and two cultures – Swedish and Russian. His thesis that cultural identity is not something frozen at the level of folklore and ethnic heritage – it can and should be change, brimming with new meanings and content, of particular interest.

**Key words:** culture, cultural identity, ethnos, folklore, educational system, education metatheory

I.Ju. Gladkiy

### Ethnos and landscape: to the not damping dispute about the nature of interdependencies

The attention is attracting to the continuing dispute about the relation of ethnic identity with the natural environment. It is emphasized that the structure of ethnic self-consciousness has still to end certain ingredients. Advocate of view, according to which the influence of the geographical environment on the ethnic identity is not implemented directly, but indirectly, including through the interconnection of ethnic traditions, often caused by specific natural conditions of the area.

**Key words:** ethnos, landscape, natural factors, ethnic identity, «the people's soul», national character, biological evolution.

A.I. Sorokin, N.G. Zelenkova

### Where do you go, «homo sapiens»? (on the unity of mankind and hydrosphere)

To-day problems of fresh water resources use in the world are discussed. The international programs intended to getting through the water deficit are mentioned. The total unity of hydrosphere and man, as a part of the biohydrosphere, is shown. Due to this reason, the inadmissible of intensive environment pollution is marked. The main ways of salving humanity survival problem are recommended. The necessity to pass the new lows of social and state organization as well as to change some geopolitical views is postulated. Providential role of Russia in the future of a mankind is predicted.

**Key words:** biogidrosfera, water deficit, hydrosphere, glaciophere, limnosfera, okeanosfera, freshwater, toxin.

S.V. Myasnikov

### The social aspects of forest policy in modern Russia

The causes of the systemic political crisis in the Russian forestry. Determined by the relevant social aspects of forest policy in Russia. Proposes a political project of social use of forest resources. Discusses the relationship between the problems of social orphanhood and the national forest policy.

**Key words:** forest policy, forest resources, social policy, social justice, Depletion of forest resources, resource conservation.

### Analysis of ecological-economic index of Russian regions

The paper discusses possibilities of using ecological-economic index (EEI) as an integral indicator of sustainable development. Russian region 83 is divided into 3 groups by cluster analysis: successful, relatively successful, unsuccessful. It is identified factors that contribute to the division of regions into groups and features their spatial distribution on the territory of Russia. There was fulfilled the estimate of the contributions of individual components in the EEI by multivariate regression. It is shown that more than 60% of the variance EEI describes the depletion of natural resources.

**Key words:** sustainable development, environmental and economic index, a global environmental crisis, cluster analysis, multiple linear regression.

V.Ju. Okorenkov, A.V. Tsherbina

### Ensuring reliability of information obtained by ground observation network Roshydromet: metrological reliability and stability of the automatic metrological information and measuring systems

The article describes the estimation of normalized metrological characteristics of measuring metrological means using in automated weather systems and automatic weather stations set in the operation process in the first stage of modernization of ground observation network Hydromet to establish the international obligations of the Russian Federation in the field of exchange of information on the state of the environment, as well as training prognostic information products.

**Key words:** metrological measurements of the vehicle, metrological reliability and stability, the reproducibility of measurements, metrological characteristics.

N.V. Lovelius, V.N. Lovelius, A.Ju. Retejum

### The pine and oak tree ring changes in mountains of Southern Greece and the global environment

The authors describe rhythmic changes in growth of oaks and pines in Southern Greece. It was found that common tree ring anomalies are connected with specific levels of solar and geomagnetic activity, cosmic ray intensity, and also with type of atmospheric circulation and sea surface temperature in a period of time lasts for up to two years. We show effects of positive and negative growth trend changes caused by fluctuation of solar activity and cosmic ray modulation.

**Key words:** tree ring studies, growth anomalies, solar and geomagnetic activity, cosmic ray, atmospheric circulation, sea surface temperature

N.V. Lovelius, K.N. D'yakonov, S.B. Palchikov, A.Ju. Retejum,  
D.E. Rumyantsev, V.A. Lipatkin, A.V. Cherkashev

### Radial growth of scots pine in bog sites of Russian forest area and global environmental factors

Studies of the effect of global factors (solar and geomagnetic activity, galactic cosmic rays) on the cambium activity face the problem of separation of effects caused by global factors from effects caused by the interannual variability of climatic factors on the local sites. One possible way to solve this scientific problem is the construction of a generalized chronology based on the average data on separate, distant from each other regions in one type of forest. On the material from test areas of 10 regions of Russia was received a general chronology, which characterizing features of radial growth of Scots pine in the bogs forest types of forest zone of Russia. On its basis, the quantitative characteristics of the influence of cosmic environmental factors on the formation of Scots pine tree rings were obtained.

**Key words:** dendroindication, dendrochronology, Scots pine, the formation of tree-rings, the impact of astrophysical factors of growth

S.V. Lezhneva

### Features inter-annual differences of growth pine in north-east in the Vologda region

The paper presents the results of measurements of the series of annual rings, the analysis of increment of pine, its perennial and spatial variability in the different conditions in Veliky Ustug district in Vologda region.

**Key words:** pine, dendroindication, radial growth, forest ecosystems.

L.S. Ivlev, V.A. Reznikov

### Structure and abnormal water properties

Abnormal water properties are discussed. Special features of abnormal microstructure of water make an influence on physical (and particularly on biophysical) environmental processes.

**Key words:** associates, amorphous structure, self-similarity elements, dynamical molecular centers of equilibrium, distillation, activity.

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### The diversity of symbiotic relationships and a possible approach to their classification

In view of the consortive nature of the symbiotic relationships a classification of symbioses and related phenomena is developed. Symbioses are divided into physiological and ecological ones and contrasted to dynamical consortive relations. The applicability of the democentric and coenocentric reference frames to symbiotic systems is discussed.

**Key words:** symbiosis, consortion, metabolic relations, medium of life.