

SUMMARY

S.A. Dyatlov

Entropy economy: methodological aspects of the analysis of world financial and economic crisis

Substantiation was given for the authorial cross-disciplinary methodological approach synthesis to the investigation of the entropy economy, disclosure of its essence, analysis of its particular manifestations. A number of new concepts were introduced to the scientific practice and their subject was disclosed, such like "target development dominant", "dominant competitive advantage", "synergic integrated effect". The necessity of transition to a new development model was substantiated, which is defined as innovative and hypercompetitive economy with innovative and synergic development dominant and the appropriate mechanism for macro-regulation.

Key words: entropy economy, entropy methods, synergic integrated effect, target development dominant

O.I. Lebedeva

Management of real estate in the conditions of the russian economy

For transition to economic methods of land management and real estate should have a full and accurate information on the status of land and property, and their distribution in the different forms of ownership, the economic evaluation of state protection tax.

Key words: management of real estate, ground relations, real estate, state ownership, real estate market, real estate assessment.

V.F. Bogachov, N.V. Metlyuk

Innovative business structures: cloud principle of formation

The paper deals with characteristics of formation of the innovative management structures based on cloud principles. Main features, advantages and disadvantages were defined in comparison with other management structures.

Key words: business structures, cloud structure of management, crowdsourcing, social network, business struggle.

A.I. Losev

Logistics album as an information data array to determine the prospects of logistics projects (on the example of the project «DANKO»)

Abstract: In this article introduces the notion of the - logistic map and logistics album. The principles of their formation and methods of estimation of logistic projects. Analyzed the main features of the logistics of the project «DANKO», calculated assessment of these criteria and the overall assessment of the project.

Key words: the logistic map, logistics album, the far East region, the Arctic region, the project «DANKO».

V.N. Rudchenko

Multi-level approach in tourism product formation

This article is devoted to the characteristics of the tourist product in terms of its multi-level formation structure. The main advantage of the proposed issue in tourist product formation is the ability to use at the same time all its levels and each level separately.

Key words: tourist product, the formation of the tourist product, the levels of tourism product.

A.A. Kuprin, I.V. Zhuk

Role of adaptive potential in creation of effective mechanisms of operation of business to changing conditions of functioning

Questions connected with the analysis of forms of adaptation of the enterprises, disclosures of directions of necessary changes in their activity and interrelations where the analysis of productivity of adaptation of the enterprises is represented to the most important, definition of depth of qualitative shifts in their industrial and organizational structure Are considered. In this connection a role of adaptive potential to changing conditions of functioning and scales of its practical application in modern economy considerably increase in operation of business.

Key words: adaptive potential; adaptability of control systems; adaptable activity; controlling; systems of quality.

Management of development of small entrepreneurship in the context of organizational-economic cooperation of entrepreneurial structures

In the article the author examines the essence of organizational and economic cooperation of entrepreneurial structures, analyzes the correlation between the concepts of «development» and «structural changes» small business and considers the directions of the transformation of the organizational-economic forms of interaction and linkages of small and large business structures. The author as a form of control of organizational-economic interaction in the conditions of market economy offers the formation of a self-sufficient economic system. Management of development of small entrepreneurship in the direction of the organizational-economic interaction, the author offers in the form of the creation of a public information system, as well as the formation of business networks on the basis of building a franchise relationships.

Key words: small business, craft business, organizational-economic development, self-sufficient economic system, franchising, information system, business network.

V.V. Rizzi

Status, problems and prospects of development of the tourist potential of the North-West Federal District

The article gives a brief description of the North-West Federal District in terms of its geographical location, natural, recreational, cultural resources. Condition, stated prerequisites, challenges and threats to the development of tourism in the region are described. Federal and regional legislation regulating the development of tourism in the area are presented. The directions of the development of the tourist potential of the North-West Federal District are showed.

Key words:

tourism potential, recreational resources, world heritage sites, event and business tourism, the tourist flow.

J.N. Spiridonova

The Formation of the First sharing Insurance Communities in Russia

The analysis of creation and development of the first conntoy sharing insurance communities in the end of XIX – beginning of XX century is given in the article. The historical backgrounds, conditions of appearing and developing of the institution of social insurance in Russia are observed. The role of the first Share – holders is analysed. The first steps of national businessmen on the insurance marked having made much contribution info this field and having a certain place on the market of insurance service are also analysed. The foreign participation in the Russian insurance business is shown.

Key words: insurance, states, insurance institutions, insurance communities, insurance law system, types of insurance.

V.A. Ermolov

Violation of continuity of power in Russia first half of xix century and society's attitude to the prestige crowned in memoirs

Speaking about the problems of continuity of power and prestige crowned heads of the Russian Empire in the nineteenth century. The conclusion is drawn that the success or failure of many endeavors was directly related to their inability or unwillingness to take responsibility and make decisions.

Key words: government under the Constitution, liberalism, public life, opposition, succession, revolution, autocracy, terrorist.

A.Y. Suslov

Modern historiography russian socialist party: theorist-methodological aspects

Modern theorist-methodological approaches are considered In article to study of the historiographies Russian socialist party – socialist-revolutionary and social-democrat. Emphases addresses on understanding the term «historiography», features soviet and post soviet of the history science, categories дискурса, intellectual history and history memory.

Key words: historiography, socialist parties, intellectual history, history memory.

T.A.Abramova

The industry of the soviet union: scheduled progress and cyclicity

The article analyses the development of the Soviet industry. Cyclic characteristic features of the USSR economy end its exposure to ware fluctuations are revealed. The main attention of the author is given to the importance of economy planning which was approved for the first time as an integral element of market setting in the Soviet Union industry.

Key words: industry, economy, national economy, economical development, administrative system of managment, economic growth, planning, cyclic.

Ships of lend-lease for the Soviet Union during the Great Patriotic War

The article is devoted to the deliveries of military ships from Great Britain and the USA to the Soviet Union during the war 1941 – 1945 under conditions of lend-lease. The author investigates the role of Britain and American ships in main military operations made by the Soviet Navy during the struggle against Nazi Germany and its allies in Europe.

Key words: Grand alliance, war ships, Great Patriotic War, Great Britain, Navy, lend-lease, submarine's destroyers, Soviet Northern Fleet, the USSR, the United States, torpedo boats, minesweepers.

R.I. Filippenko

Kharkov School of History of Art: A. I. Kirpichnikov

The article deals with the formation of science of fine art in Kharkiv University and covers the Kharkiv period in the life of the first-rate scientist for his days A. I. Kirpichnikov. Being a philologist, historian of art, professor of Kharkiv, Novorossiisk, and Moscow Universities, Corresponding Member of St. Petersburg Academy of Sciences, he left a deep trace in domestic science.

Key words: A.I. Kirpichnikov, Kharkiv University, history of art.

E.E. Tarando

The Theory of Property in the Economic Sociology

In this article the point of view about insertion of the problems of property in the field of the economic sociology is defended. The sociological approach to the relations of property forms the special sociological theory – the sociology of property. The description of the theoretical basis of the sociology of property is given – the property is defined as the social relationship, the subject and the object is analyzed from a position of the sociology, the questions of the field of the sociology of property are marked.

Key words: property, sociology of property, institute of property, subject of property, object of property.

I.G. Afanasieva

Individual and society interaction as social function of property

Summary: in given article are investigated the problems of interrelation of the individual and society based on new social function of a property. In this paper are also studied the interrelation between a property and character of the person, and between social roles and a distribution principle in line with an ideas of justice. Besides, there is analyzed the strong-willed maintenance of a property based on a factor of violence and the public contract.

Key words: economic functions of property, social functions of property, property relation, property institute, moral and valuable foundations, relation of person to things, personality embodiment in things, strong-willed the maintenance of property, personality formation, economic and social roles, philosophy of individualism, economic consciousness, property distribution, social inequality, alienation of benefits.

P.G. Chernikova

Category of «Transcendental Experience» in the artistic traditions of XX century

This article attempts to analyze, describe and create new level of understanding of the text, the vehicle which is the subject of nowadays culture, whether it is a literary work, a photography, a unique or quoted image having a high level of connotations. In this publication, there is an appeal to the space of modern life. This phenomenon combines the eternal and the momentary, space harmonies and contrasts, a measure of time plastic, from the point of view of history, and the exact amount, in terms of individual time far person. The article provides a number of concepts and works of art that have shaped one of the most influential areas of culture and philosophical discourse XX century. In the text demonstrates the thoughts and ideas have been widely developed in the present and asserting their timeless relevance in matters of culture and art.

Key words: threshold condition and eternal themes in contemporary art, modern trends in art, artistic image, the aesthetic object, symbol, vanguard, intentionality, alternative, simulacrum.

V.A. Kutz

Protective functions in the culture system: the optimal strategy of risk reduce based bayesian approach

The Bajesian approach is considered as universal for information and bodily self-defense. This approach is applied to the analysis of martial arts in general and Russian fisticuffs in particular.

Key words: average risk, Bayesian approach, self-defense, Russian fisticuffs.

A.A. Petrova

Russia in the period of «great reforms» of Alexander II in the perception of Spanish explorer

The article deals with the history of the visit of the famous Spanish scientist A. Pascual to Russia, his impressions of the visit to St. Petersburg, Moscow and other cities, which he published in his famous work "Memories of Russia". "Memories" A. Pascual played a significant role in shaping the views on the far northern country in the Spanish public opinion of the XIX century.

Key words: history of Russian-Spanish relations, the history of new time, the history of diplomacy.

International relations system in the Russian civilization

Is proposed that the Russian society as a system, which includes elements of ethnic groups, and members-area, which can form the territorial and ethnic subsystem. The characteristic elements are highlighted ethnic, group and sub-ethnic relations in the system. It is concluded that the existing inter-ethnic communication should be developed and strengthened in an effort to complicate the set of links and add new ones. Russia's national policy should take account of the federal structure of the state, as well as labor migration and immigration.

Key words: state, international relations, people, national policy, nation, paternalism, Russian civilization, area, federal structure, goal setting, ethnoses.

E.V. Stecko

«Global governance» and the role of non-governmental organizations in its development

The article is devoted to the problems of globalization and «global governance». Global governance is considered as a mechanism to counter global challenges and as a prototype of the future world order. It examines the strengths and weaknesses of the idea of «global governance». Special attention is paid to the role of non-governmental organizations, their status, methods of work and the role in the formation of the global steering.

Key words: globalization, global problems, global governance, international relations, international non-governmental organizations, United Nations.

F.R. Dzhantueva

Political parties – an indicator of civil society (on the example of Kabardino-Balkarian Republic)

Political parties can be called mediators between social forces, ideologies and official state institutions. Political parties provide interaction between the state and the civil society. This aspect of contemporary Russian politics is the most crucial and controversial.

Since the scope of the relationship between the society and the state is the core of the political system, it is here that the principle of democracy is implemented (or not implemented).

Key words: civil society, political parties, politics, elections, the State Duma.

A.V. Petrov

Social Partnership and Youth Employment in the modern Global Economy

This article discusses the problems of youth employment in the current context of global socio-economic transformations. Attention is given to discussions about the problems of global unemployment and measures to address them. This article discusses the role of social partnership in solving the problems of employment

Key words: youth employment, global unemployment, international economic relations, social partnership, economic sociology, sociology of labour.

D.A. Vinogradov

Vectors of the corporate social responsibility of business in modern Russia

The article analyzes the problem of the formation of the concept of corporate social responsibility in Russia. Special attention is paid to the initiatives of the business community to address the formation of corporate social responsibility at the present stage of development of the Russian business.

Key words: corporate social responsibility, social oriented business, sustainable development, corporate citizenship, entrepreneurship, economic sociology, sociology of entrepreneurship.

K.S. Kokombaev

Multiethnic society and the aspects of nation's lifestyle

Important in the historical perspective of Kyrgyzstan took the Soviet period, when the intensity of the Kirghiz-Russian relations was determined by the status of the union republic within the USSR. Kyrgyzstan, being in the political, economic and socio-cultural interests of the Soviet orbit, has received the corresponding vector of social and historical development.

It should be emphasized that with the collapse of the Soviet multinational state, in the early years of the sovereignty and independence, a significant proportion of newly Kyrgyzstan could not renounce the identity of union identity.

Despite the negative effects of internationalist political doctrine of the Soviet state, the leadership of the newly Kyrgyzstan, thanks not lost spirit was able to maintain multi-ethnic flavor of the country.

Key words: soviet people, lifestyle, internationalism; polyethnicity.

I.N. Denisov

Leningrad – Hero-city: history of turning to Saint-Petersburg

Explores the historical, legal and moral aspects of the renaming of Leningrad in Saint-Petersburg, produced in 1991.

Key words: blockade of Leningrad, the Supreme Soviet of the USSR, Leningrad, the Leningrad Soviet, Saint-Petersburg, toponymics.

The language policy and its role in formation of construction of the nationhood in Peoples Republic of Tuva (Tannu-Tuva) between 1921–1944

This article discusses the efforts of the construction of nationhood and the role of language policy. The main argument of this article is that the national literature language is a constructed phenomenon. They were constructed in order to raise national consciousness.

Key words: nation, politics of language, Siberia, Republic of Tuva. Buddhism, old-Mongolian language, Tibetan language.

I.B. Gorbunova, M.S. Zalivadny

Formalized music by Iannis Xenakis as an attempt of mathematical representation of the logical regularities in music

The article analyzes the mathematical interpretation of logical regularities in music, made by the outstanding French composer and architect of Greek origin Iannis Xenakis (1922–2001) in his main work on theory of composition.

The authors of the article use the settled approaches of studying the structure of messages by set theory, theory of probabilities and theory of information. These approaches allow to elicit Xenakis' most significant contributions to the solution of the aforementioned problem that are essential for contemporary theory of music and practical composition.

Key words: Iannis Xenakis, mathematics and music, set theory, theory of probabilities, theory of information.

O.A. Kirillova

«Art nouveau» Style and Aesthetics in Russian film

«Art nouveau» Style (the end of XIXth – beginning of XXth centuries) is first explored in contemporary Russian film whereby it is represented in various genres: screenings, biographies, stylizations etc.

Key words: «Art nouveau» Style, visual dimension, stylization, the space of style, culture of foreshortening, the synthesis of arts (Gesamtkunstwerk).

A.E. Zhabreva

«It's brooch with precious stones, loops of pearls...»:

Russian ambassador Peter Potemkin's attire (according visual and written sources)

The article compares the image sources – portraits of Russian ambassador Peter Potemkin (1617–1700) by West European painters G. Kneller and J. C. de Miranda and some written documents close by that period. The author analyzes the main elements of Potemkin's representative attire, which carry the main idea to demonstrate the ambassador's high status. The author tries to bring together the names and images of clothes and decorations.

Key words: Russia, 17th century, costume, image sources, writing sources, Spanish painting, English painting

S.V. Layshenko

Landscape in the Work of N.S. Samokish

In this article the main features of landscape genre treatment in the work of the famous painter of battle scenes Nikolai Semenovich Samokish (1860-1944) is explored. The problem of the connection between battle-piece genre and landscape, that became the basis for many of his compositions (both paintings and drawings), is raised. The description of some works, including illustrations, that contain landscape or landscape background is given. The artist is shown as a connoisseur of nature and a horse-lover. The fragments of the recollections from his memoirs, as well as notes about nature and landscape from his album "The War 1904-1905. From artist's diary", are cited.

Key words: N.S. Samokish; battle-piece genre; landscape; painting; drawings; illustrations; nature.

M.A. Marchenko

Recycling. Play, Art and Life

The term of "Actual art" little-known by traditional art-criticism is considered in the "play-field" of contemporary culture. Range of events occurring in economics, everyday life culture and child's play aspects determined by the same term are also touched upon.

Key words: civilization, culture, trash, toy, Africa, modern, ready-made.

R.G. Shitikova

The development of the idea of contrast as a genre-forming factor in a sonata of classicism and romanticism

The article is devoted to the theoretical substantiation of the problem of contrast as a sonata attributive sign that causes and forms its conceptual content, image system, intonation dramatic concept, compositional features and its form-building processes proper. The article reveals interdependence and determinism of the genre-forming properties of contrast, its types, scope, methods of regulation, the way of introduction with the historical and stylistic context in a sonata of classicism and romanticism.

Key words: classicism, romanticism, genre, sonata, contrast, composition, content, form, musical language.

Vocal performance of Henrietta Nissen-Saloman

The article provides an overall analysis of the performance and repertoire of Henrietta Nissen-Saloman (1819–1879), the eminent Swedish singer, going on tours all around Europe and Russia in the 40–50s of the XIXth century. The article is based on the both new and familiar scientific sources, which were granted by the State Swedish Musical Library, affiliated to the Musical Museum, Stockholm.

Key words: vocal art, opera and concert repertoire, performance activity, operatic part.

S.E.Kurnosova

«Russian trend» in piano sonata by Gregory Korchmar

The article deals with the analysis in multi aspects of the Piano Sonata by the composer from Saint-Petersburg Gregory Korchmar. Some peculiarities of composer's idea, devices and special technique of the composer are explored by the author.

Key words: G. Korchmar, sonate, genre, neo folklore trend, piano music, modern Saint-Petersburg composers.

A.A. Timoshenko

Church singing tradition of modern Polozk. About sound ideal

The article is dedicated to peculiarities of sound ideal of contemporary Polozk orthodox singing tradition. Author formulates different factors that influence on the process of rebirth of orthodox singing tradition of Polozk women monastery.

Key words: church singing culture of Polozk, soundideal, natural and artificial singing, rebirth of church singing culture.

I.A. Chudinova

St. Euphrosyne of Polotsk and the traditions of the Byzantine women's monasticism

St. Euphrosyne activity considered in the context of the Byzantine tradition of women's monasticism. The goal of this study is a reconstruction of the initial sound ideal of liturgical singing of Russian nuns.

Key words: emale monastic tradition, holy Evfrosinia of Polotsk, soundideal of Church worship.

V. A. Zaborovskaya

Aspects of restoration and broadcasting

On the example of the restored monument considered a problem of preservation of information capacity and material basis, as well as the problems of its broadcast via electronic media.

Key words: conservation, restoration, and preservation of information capacity, transmission.

T.V. Sholomova

Values guidelines of russian intelligentsia

This article is devoted to impossibility to describe the concept "Russian intelligentsia" in historical perspective; in the last years of Soviet power typical intelligentsia's question about "the obligations to the people" has transformed into a problem of accessibility of material benefits.

Today there is probably no one who wants to call himself the "representative of intelligentsia", but it doesn't mean that intelligentsia has degraded. On the opposite, it seems that intelligentsia has evolved into the "middle class" with its' rather calm attitude towards material benefits and rather demanding attitude towards the state power.

Key words: values, intelligentsia, moral, ideal, people, power, material benefits, spiritual values, middle class, cultural integrator.

I.B. Romanenko, E.N. Barsukova

Social and Cultural Identity and National Mentality: Urbanal and Anthropological Approach

The article deals with problem of the comparative analysis of the phenomena of social and cultural identity and national mentality. The author defines the notion of social and cultural identity of the region. But a special attention is paid to the analysis of the urbanal and anthropological approach of the problems mentioned above.

Key words: social and cultural identity, national mentality, social and cultural identity of the region, regional identity, urbanal and anthropological approach, social and cultural analysis.

Cin Cin

The phenomenon of universalism of the creative personality based on the life and activity Zhou Guangren

Zhou Guangren is a unique personality in modern Chinese culture. She is a famous in China and in the whole world performer of piano music, a prominent teacher, a researcher and a talented organizer of music-education centres. This article is devoted to consideration of biography of Zhou Guangren, his performing, pedagogical and organizing activity.

Key words: China's piano art, piano performance and education, universalism of the creative personality.

Forms of the embodiment of the concept «revival» in calendar and ceremonial culture of Russian people

In the article is discussed in detail the symbolic nature of the traditional calendar. In particular, it was noted that symbols of traditional culture of Russian people has a great theoretical and methodological potential: key symbols-values of people's ideas are expressed in traditional forms.

The calendar (and according to ceremonial) year was built on the principle of eternal circle. Thus the uniform knowledge understood as eternal return by the beginning, opening before people the new vital horizons affirmed.

Key words: Russian traditional culture, calendar, the concept «revival».

N.I. Verba

The Mythologem of the Wedding in «The Russalka» A.S. Dargomyzhsky: to the Question about the Semantic Landmark in the Final of the Opera

As is known, A.S. Pushkin's drama «The Russalka» has remained unfinished. Therefore, A.S. Dargomyzhsky, when he turned to the plot of Pushkin's drama, had to create the final himself. This article is devoted to consideration of the specifics of the finals in the context of the wedding myth in the opera.

Key words: mythologem, Russian opera, the images of the works of art, the plots about the Sea Maides.

K.V. Sultanov, A.A. Vosresensky

Humanitarian Technologies: Toward a unified educational space

The article deals with analysis of the heuristic capabilities of humanitarian technologies as the basis for the paradigm formation of a single educational space in Russia. A characteristic of humanitarian technologies in the educational process and exploring of the possibilities of humanitarian technologies in the management of social processes are given in the article.

Key words: humanitarian technology, innovation, modernization of education, social processes, management, competence approach.

V.S. Moiseeva, D.M. Manikina

Volunteer Center of St.-Petersburg to prepare students of higher and secondary specialized educational institutions to participate in the Olympic Games "Sochi-2014"

The purpose of this article is to study the activities of Volunteer Center of St. - Petersburg on education and training of high school students to participate in the XXII Olympic and XI Paralympic Winter Games 2014 in Sochi.

Key words: volunteer, charity, moral, kindness, educational activities and traditions.

V.A. Rabosh, A.S. Makashova, N.V. Shachno

Alma mater. Forms of interaction of the pedagogical university with graduates

Over recent years, Russia has experience of interaction between universities and graduates. Described the basic shape and strategy of their interaction, the experience of pedagogical universities to interact with alumni, form expert analytical support professional careers.

Key words: graduate teaching institution, monitoring, professional fulfillment, career development, labor market, employment, expert activities, expert and analytical support.

A.E. Nazirov

The constructing methodology of a service theory

This article is devoted to the research of the philosophical-methodological foundations for constructing an economic theory of service. The specificity of this theory is that the consumption of goods and services corresponds to human production as secondary production. Along with this, such fundamental categories as abstract labour and concrete labour, socially necessary time and free time are reversed in terms of means and purpose.

Key words: consumption, economic structure, human, labour, modernisation, production, social field, service.

A.I. Subetto

Geliokosmic Revolution and Eurasian theory as moments Vernadskiy-Gumilev-revolution in the scientific picture of the world beginning of the XXI century

Philosophical paradigm XXI century is defined as Vernadskiy-Gumilev-revolution in the scientific world picture. Model of sustainable human development should be based on social intelligence. Eurasian theory of L.N. Gumilev is important genesis component of noosferizm.

Key words: V.I. Vernadsky, L.N. Gumilev, Eurasian theory, noosferizm, noosferogenez, Russian Space Art.

The natural cataclysms in the genesis of the Byzantine iconoclasm (726–843)

In this article the Byzantine and Christian understanding of natural cataclysms are considered. The author offers a hypothesis about the influence of the Ravenna earthquake 725–744 on genesis of the Byzantine iconoclasm. This paper also presents a number of evidence (Byzantine sources) between the relationship of natural disasters and Byzantine iconoclasm.

Key words: Byzantium, iconoclasm, Leo III the Isaurian, natural cataclysms, patriarch Nicephorus, reverence of the icons, the Ravenna earthquake, Theophanes the Confessor.

L.S. Ivlev

Aerosols and global climate changes

There is the observation of the influence of natural and anthropogenic aerosols on the climatic processes. We can see that the calculation of aerosol influences on the climate in present time wasn't made reasonably enough mostly because of the inaccuracy of data about the processes of generation and on physico-chemical properties of atmospheric aerosols. Up-to-date state of the knowledge on the subject is observed.

Key words: natural and anthropogenic aerosols, global climate changes, albedo, sulphate, volcanic substance, stratosphere, phase transitions of water.

V.V. Drozdov, N.P. Smirnov, G.T. Frumin, A.V. Kosenko

Justification of the natural mechanisms of influence of climate-forming processes on the Oceanological mode of the Baltic sea and the environmental conditions necessary for the spread of invasive species on the move with the ballast waters of ships, leading to biological cross-border pollution

The peculiarities of long-term variability of inflows of high salt water from the North sea into the Baltic. Analyzed and justified the impact of climate-forming processes and the natural mechanisms leading to the emergence of intensive North sea waters and their impact on the spread of alien species. Made a comprehensive analysis of the causes of the dynamics of water exchange showed a high degree of dependence of its parameters on the values of the volume of the river flow Sweden and level regime in the South-Western parts of the Baltic sea, and Kattegat. It is shown that the parameters of the river runoff and intensity of water exchange between the seas are in turn the high degree of dependence on the degree and character of the atmospheric circulation over the North Atlantic as a whole, as an indicator of which used different variants of the indices of the North-Atlantic oscillation (North Atlantic Oscillation - NAO).

Key words: the Baltic sea, transboundary biological pollution, alien species, the dynamics of climate, oceanological regime and water exchange.

L.I. Divinsky, L.S. Ivlev

Water and aerosols of volcanic origin in the upper atmosphere

Based on a critical analysis of the data on a powerful volcanic eruptions over the past century suggest that volcanic water vapor and aerosols significantly change the structure and optical properties of the upper atmosphere. There is separation of aerosols and gases that contribute to the formation of the cloud, as well as enrichment in the upper atmosphere, a number of elements of deep origin.

Key words: raptive volcanic eruption, magma, intracrustal faults, volcanic vapor, sulphate aerosols, the enrichment factor, photophoresis, nucleation.

N.V. Lovelius, A.N. Sobolev, P.A. Feklistov

Features unity in the growth of pine and spruce at Solovetsky Archipelago and the environmental factors

He article reveals the years of concurrent large and small quantities of growth of annual rings of pine and spruce growing on the Solovki islands .. It is shown that global environmental factors: Northern Hemisphere atmospheric circulation, solar and geomagnetic activity, galactic cosmic rays have a much higher vibration amplitudes opposite anomalies during growth than regional - air temperature and precipitation.

Key words: indices of growth of tree rings, generalized series, solar activity, geomagnetic activity, galactic cosmic rays, anomalies, sampling, types of circulation, a running total.

E.V. Muhachev, I.A. Gabay, V.N. Nosov K.A. Mihaylova, D.P. Kanajkin

The influence of electromagnetic radiation of wireless Bluetooth device (IEEE 802.15.1 protocol) on dynamics of rats feed conditioned reflex develop

The research of wireless data transmitter by IEEE 802.15.1 protocol module ("Bluetooth") electromagnetic radiation effect on white rats feeding conditional reflex developing dynamics in Y-ray maze were examined. The depression effect of twenty-day exposition on training and memory processes was shown. Thus, the informatics overweak levels of EMR treatment are significant for cognitive brain function and demand a overall detailed analysis.

Key words: electromagnetic radiation, Y-maze, feed conditioned reflex, PC, wireless data transfer.