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*Sidenko M.V.* The forth Readings in Honour of N.M. Przhevalky (Smolensk, Smolensk Humanities University, 30<sup>th</sup> October – 01<sup>st</sup> November 2014).  
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### REVIEWS

*Predovskiy A.A.* The problem of ice age in earth's history. Two books of antiglacialists Vassilii Chuvardinsky: «Was there the continental separation of Europe? Myths and reality»; Saarbrücken: Lambert Academic Publishing, 2014. 275 p. ISBN 978-3-659-62697-5.

### OUR AUTHORS

# SYNOPSIS OF THE JOURNAL

## BIOLOGY AND NATURAL SCIENCES

M.Yu. Gildenkov

*Coprophilus schubertii* (Motschulsky, 1860) and *Coprophilus piceus* (Solsky, 1867).  
*Coprophilus pseudopiceus* – a new species from Europe  
(Coleoptera: Staphylinidae: Oxytelinae)

Key words: *Coleoptera*; *Staphylinidae*; *Oxytelinae*; *Coprophilus*; *Europe*; *diagnostics of species*; *synonymy*; *new species*.

Taxonomy of *Coprophilus schubertii* (Motschulsky, 1860) and *C. piceus* (Solsky, 1867) is discussed, as a result synonymy which has been provided earlier is confirmed: *Coprophilus schubertii* (Motschulsky, 1860) = *Coprophilus piceus* (Solsky, 1867), *syn.* The species new to science from Austria and Germany is described and illustrated, *Coprophilus* (*Zonyptilus*) *pseudopiceus* sp.n.

M.Yu. Gildenkov

**The Preliminary Review of Structure of Genus *Mendaxinus* Gildenkov, 2004**  
(Coleoptera: Staphylinidae: Oxytelinae)

Key words: *Coleoptera*; *Staphylinidae*; *Oxytelinae*; *Mendaxinus*; *new synonymy*, *lectotypes*; *new ranks of taxons*; *new combinations of names of taxons*.

*The article presents the review of modern structure of Genus Mendaxinus Gildenkov, 2004 (50 species and 4 subspecies), provides the information on distribution, establishes new synonymy, new ranks of taxons, new combinations of names of taxons and designates lectotypes. Synonymy is established: Mendaxinus schoutedeni (Cameron, 1928) = Mendaxinus ghesquierei (Bernhauer, 1937), syn. n. Are designated lectotypes: Trogophloeus borneensis Bernhauer, 1928; Trogophloeus congoensis Fauvel, 1900; Trogophloeus ealanus Bernhauer, 1937; Trogophloeus mafingensis Bernhauer, 1932; Trogophloeus fimbriolatus Cameron, 1948; Trogophloeus koppi Eppelsheim, 1885; Trogophloeus longiventris Cameron, 1952; Trogophloeus pallidicornis Bernhauer, 1935; Trogophloeus pauliani Cameron, 1948; Trogophloeus proximus Cameron, 1950; Trogophloeus rufotestaceus Cameron, 1918; Trogophloeus schoutedeni Cameron, 1928; Trogophloeus ghesquierei Bernhauer, 1937. Are transferred in a rank of subspecies: Mendaxinus congoensis ealanus (Bernhauer, 1937), stat. n.; Mendaxinus congoensis mafingensis (Bernhauer, 1932), stat. n. New combinations of names of taxons are established: Mendaxinus megacephalus (Cameron, 1945), comb. n.; Mendaxinus pendleburyi (Cameron, 1950), comb. n.; Mendaxinus rufotestaceus (Cameron, 1918), comb. n.; Mendaxinus semiopacus (Cameron, 1928), comb. n.*

E.A. Gorodnichenko, L.G. Chalova

**Rehabilitation Processes as an Instrument of Identification  
of Organism Functional Status**

Key words: *static loads*; *rehabilitation processes*; *physiological systems adaptation reactions*; *age differences*.

*The article under consideration deals with some peculiarities of rehabilitation processes in a number of physiological systems under the conditions of static loads, and with the influence of various volumes of work on the character and the tempo of various indices of rehabilitation in the female organism.*

**E.A. Gorodnichenko, G.V. Korotkova**  
**Peculiarities of Rehabilitation Processes in Cardio-Vascular and Neuromuscular Systems  
after Static Muscle Load**

Key words: *static load; rehabilitation processes; cardio-vascular system; adaptive reactions, age and sex differences.*

*The efficiency term adaptive responses of the central and peripheral hemodynamics and neuromuscular system in boys and girls aged 18-22 under the condition of increasing static load has been analyzed. The factors which influence the character of the recovery processes after repeated load are identified.*

**N.N. Voitenkova**  
**The Seasonal Dynamics of the Missetobiontnyh Staphylinidae (Coleoptera, Staphylinidae)  
in the Coniferous Forests of Smolensk Region**

Key words: *Staphylinidae; Atheta; Gyrophaena; missetobiontnyh Staphylinidae; seasonal dynamics; coniferous forests.*

*The species composition and the seasonal dynamics of the missetobiontnyh Staphylinidae were studied in the coniferous forests of Smolensk region. The main differences in the seasonal dynamics in the coniferous forests of different types and complex borons are presented.*

**S.V. Rybkina, M.V. Beljakov**  
**The Study of the Excitation Spectra and Luminescence of Seeds of Woody Plants**

Key words: *seeds; spectra; luminescence.*

*The article presents a method of measurement as well as the obtained spectral characteristics of the excitation and luminescence seeds of *Picea abies* (L.) and *Pinus sylvestris* L.*

**Z.M. Asadulaev, P.K. Omarova, Z.R. Ramzanova**  
**Age-Specific Anatomical Peculiarities of *Taxus baccata* L. Needle**

Key words: *population; variability; *Taxus baccata*; anatomical structure; tissue.*

*The characteristics of the main structural elements of tissues of *Taxus baccata* L. needles are given in article. Age-specific changes of anatomical structures of *Taxus baccata* L. needles and the connection with age of life are considered in conditions of the Piedmont Dagestan. The trend of the variability of different groups of signs depending on sequence and rate of structures differentiation, their functional role at each stage of needle development and uniformity of*

*processes associated with decrease in the functional activity of the tissues of needles by natural aging and for influence of extreme factors have been identified.*

**G.V. Vyugina, S.M. Vyugin**  
**Improvement of the Methods of the Ornamental Plants Reproduction  
in Modern Tree Nursery**

*Key words: high technology of tree nursery; ornamental shrubs; plant growth regulators; propagation by herbaceous cuttings.*

*On the basis of the studies, conducted in 2012–2014 in tree nursery, various effects of the studied technologies on the rooting ability of green springs of Juniperus Sabina and Thuja occidentalis sieb are revealed.*

**V.V. Dyshko , S.M. Vyugin, V.N. Dyshko**  
**The Optimization of Basic Agrophysical Characteristics of Soil by Growing Lupinus  
angustifolius**

*Key words: been plants; technology; basic cultivation.*

*The article presents the data of the field experiments in growing Lupinus angustifolius for corn. The advantage of classical plowing for the optimization of agrophysical characteristics of soil is demonstrated.*

**E.A. Bobrov**  
**Environment Stabilizing Potential of Ravine Complexes in Smolensk**

*Key words: urban territory; ravine complexes; environment stabilizing potential; optimizing the quality of the urban environment.*

*The article is devoted to the preservation, use and optimization of environment protection and playback functions of gullies and ravine complexes in urban areas.*

**A.F. Varfolomeyev, O.A. Vakulich, V.F. Manukhov**  
**Assessment of Ecologic and Economic Balance of the Territory of Temnikov Region in the  
Republic of Mordovia**

*Key words: ecologic and economic balance of the territory; geo-information systems; space pictures.*

*The technique of studying ecologic and economic balance on the example of Temnikov region in the Republic of Mordovia is described. The territory of the area is balanced from the point of view of ecology. The central and south-eastern parts, due to high agricultural development and high concentration of the population are exposed to high anthropogenic influence.*

**T.V. Vatlina**  
**Modeling of Spatial Structure of Natural Foci Diseases**

Key words: *tularemia; epizootic process; natural foci; factor; modeling; geographic information systems; Smolensk region.*

*The use of modeling the temporal-spatial structure of tularemia foci is discussed in the article. Modeling due to the formalization of the parameters affecting the spatial-temporal structure of the natural centers improves the accuracy of the study.*

**S.P. Evdokimov**  
**A Brief History of Anthropogenic study in Russia**

Key words: *Anthropogenic; Pleistocene; history; methodology; paleogeography; geology; theory; glaciation.*

*The history of the last geology period based on logical and comparative historical analysis is considered in the article. The author displays the process of development of methodological foundations inseparable from the idea of large-scale use of zoning, integrity and polystructural character of a geographical cover. The results of the study of the development of methodological foundations of paleogeography are formulated.*

**A.N. Saltykov**  
**On the Hypothesis of Complementarity  
in Terms of the Theory of Natural Pine Regeneration**

Key words: *natural regeneration; environmental factors; cenopopulation; population splash; ecological niche; biogeocenosis.*

*The results of research of the processes of natural regeneration in pine forests of steppe and forest-steppe zones of Ukraine and the area of coniferous-deciduous forests of Russia, made during the years 2003–2015, allow for the suggestion that the process is characterized by inherent cyclicity. However, the successful implementation of the reproductive potential of pine forests is only possible if there is a niche of renewal. Complementarity of ecological niche to structure and coenopopulation of undergrowth is inherent in the process.*

**I.Y. Baranovskiy**  
**Modern Territorial Structure of Industry in Smolensk Region**

Key words: *cluster; region; industry; specialization; innovative development; territorial-production complex.*

*The territorial structure of the industry of Smolensk region has experienced crises during the post-Soviet period. At present, as there is reduction in production volumes, the polarization of regions in terms of industrial development is under way. Change of industrial specialization of districts have taken place. The creation of innovative industrial clusters is the current trend in the industrial development of the region.*

**E.Yu. Isayeva, V.A. Rubtsov**  
**The Labor Resource Potential of the Republic of Tatarstan:  
Assessment and Territorial Differences**

Key words: *population; potential, labor resource potential; integrated assessment.*

*The article deals with the results of the study devoted to the spatial heterogeneity of labor resource potential of Tatarstan Republic territory.*

**A.P. Katrovsky**  
**Trends and Problems of Russian Regions at the Border with Belarus**

Key words: *Russian-Belarusian border area; the Customs Union; the Union State; the Eurasian Economic Union; Smolensk region; Bryansk region; Pskov region; cross-border links; border «effects»; the stages of the border area development.*

*The article describes the features, tendencies and problems of socio-economic development of Russian regions bordering on Belarus. The basic stages of the development and transformation of the economic structure and resettlement have been identified. Special attention is paid to Smolensk region as the «key» link in the Russian-Belarusian border area. The article highlights the ways and directions of further development of the regions. It stresses the need for the unified concept and programs of the Russian-Belarusian border area development.*

## **MATHEMATICS AND TECHNOLOGICAL SCIENCES**

**K.M. Rasulov**  
**On the Method of Solution of the Riemann Type Boundary Value Problem in Classes of  
Quasiharmonic Functions of Arbitrary Genus**

Key words: *differential equation; sectionally quasiharmonic function; Riemann type boundary value problem; unit circle.*

*The article is devoted to the development of the constructive method of solution of Riemann type boundary value problem in classes of quasiharmonic functions of arbitrary genus in unit circle.*

**M.Y. Mazalov**  
**An Example of a Bounded Biharmonic Function  
without Radial Boundary Values**

Key words: *polyharmonic functions; Almansi's formula; lacunae series.*

*We construct an example of a bounded function biharmonic in the unit disk and not having radial boundary values.*

**N.G. Anischenkova, I.B. Bolotin**  
**About the Solution of one of the Morra's Type Game**

Key words: *antagonistic game; computer modeling; optimal mixed strategy.*

*In this paper we consider one of the Morra's type games. The original way of finding the optimal mixed strategies for solving antagonistic games with a large number of pure strategies of the players is offered. It consists of two stages: computer simulation of the game for constructing hypotheses and proof of theorem formulated on the basis of the hypothesis.*

**S.A. Gomonov**  
**On Cluster Sets of Multivalued Mapping**  
**Defined By Systems of Algebraic Equations**

Key words: *cluster set; multivalued mapping; topology space; system of algebraic equations.*

*The present article explores some properties of four types of cluster sets of multivalued mappings defined by systems of algebraic equations.*

**E.P. Emelchenkov**  
**AE-structures with Central Collineations and AE-algebras**

Key words: *AE-structure; E-algebra; Sandler affine plane; Groze affine plane; central collineation; translation.*

*The relationships between the existence of the central collineations with various centers and the existence of translations in the direction of the lines  $x = 0$  and  $y = 0$  are investigated. The algebraic equivalent of  $o$ -transitivity of AE-structure  $S$  for any point  $o$  of  $S$  is found.*

*The unsolved tasks are formulated.*

**O.N. Kuprikova**  
**On the Boundary Value Problem with Directional Derivative**  
**for Quasiharmonic Functions**

Key words: *quasiharmonic function; boundary value problem, directional derivative, differential equation; unit disc.*

*The article presents the developed constructive algorithm for solution of the boundary value problem with directional derivative in class of quasiharmonic functions in unit disc.*

**S.Yu. Kuritsyn, K.M. Rasulov**  
**On the Solution of the Riemann Type Boundary Value Problem for Metaanalytic**  
**Functions in Case of Circle Areas**

Key words: *sectionally metaanalytic function; boundary value problem; generalized Riemann problem; unit circle.*

*The article is devoted to the algorithm of solution of one Riemann type boundary value problem for sectionally metaanalytic functions in the case when boundary conditions are implemented in unit circle.*

**A.S. Vinokurova**

### **Formulas for Root Functions of the Differential Operator of the Fourth Order**

Key words: *differential operator; root function; the recurrent shift formula.*

*The paper deals with the right-sided and left-sided recurrent shift formulas for root functions, following the works of V.A. Il'in, for an ordinary linear, generally, non-selfadjoint differential operator of fourth order.*

**O.V. Matysik**

### **A Priori Choice of the Regularization Parameter in the Method of Simple Iterations with Variable-Alternating Step Solution of Linear Ill-Posed Equations**

Key words: *explicit iteration method; ill-posed problem; Hilbert space; self-adjoint and non self-adjoint approximately given operator; operator equation of type I; a priori stopping moment.*

*In the Hilbert space we propose explicit iterations method with variable-alternating step for solution of operator equations of type I. Convergence of a method is proved in case of an a priori choice of the regularization parameter in usual norm of Hilbert space, supposing that not only the right part of the equation but the operator as well have errors. The estimations of an error and a priori stopping moment are established.*

**S.N. Girko**

### **Pilot Study of Reflection of the Superbroadband Signals from Mediums with Losses**

Key words: *superbroadband (SShP) signals; radio absorbing covering; the reflected signal; signal form.*

*The pilot study of the SShP impulse reflected from mediums with losses is presented in the article. Comparison of experimental data of physical experiment with the results received by numerical methods is carried out.*

**I.V. Doronova, V.P. Ialov**

### **The Decision Making Support System in the Housing Sector, Based on Fuzzy Adaptive Classifiers**

Key words: *fuzzy adaptive classifier; recognition; method; buildings.*

*The method of classification of buildings to support the decision to conduct the current and major repair is presented. The article deals with two options for constructing a recognizer using the algorithm of reduction and the algorithm of addition.*

**A.S. Zakharov**

**Method of Approximate Reasoning Based on Fuzzy Temporal Bayesian Belief Networks**

Key words: *modeling of approximate reasoning; fuzzy logic; fuzzy probability measure; linear temporal logic; Bayesian belief networks.*

*The paper investigates the problem of modeling approximate reasoning based on the data, which is characterized by the presence of various types of uncertainty. We propose a method of forward and reverse inference in temporal Bayesian belief networks. The proposed method is illustrated by application to the problem of diagnosis of mental and emotional state of the patient, depending on the values of the contributing factors.*

**M.V. Malakhov, I.V. Malashenkova, E.A. Pankratova, N.P. Prokudnikov**  
**Specification Method for Detecting Network Attacks**

Key words: *model of network attack detection; event monitoring; attacks detection system (ADS); specification method for detecting attacks.*

*In this article specification method for detecting attacks, which has been developed using the mathematical method of finite state automaton, is proposed, the description of the utilized automation in EFSA language and in the table form of transitions is presented, attack signatures for this method are given, the model of network attack detection is introduced, which is developed using mathematical analysis and set theory methods.*

**A.A. Mendurov, V.I. Mishchenko, A.G. Voskoboynik, V.V. Mikhaylov**  
**Method of Reconstruction of the Density Distribution of Operating Time Between Failures of Renewable Systems**

Key words: *complex technical systems; flow parameter failures; nature development; MTBF; Fredholm equations.*

*In this paper a method is proposed for the reconstruction of the density distribution of operating time between failures of renewable systems using algorithmic language for mathematical software Wolfram Mathematica.*

**M.K. Merdanov, S.G. Orischuk, S.M. Semchenkov**  
**On Inverse Filtration of Radio Signals**

Key words: *discrete signal processing; super resolution; inverse filtration.*

*The article analyzes inverse filtering characteristics overlapping on the time axis of the impulse signal as simple radio pulse, code-phased manipulated and chirp signal, the known structure with the unknown amplitude, initial phase and arrival time.*

**I.V. Mishtchenko, S.V. Puzankov**  
**Achievement of Requirements and Increase of Accuracy of Modules Functioning of  
Measurement Channels of Information and Measuring Systems**

Key words: *information-measuring system; measurement channel; accuracy; optimization.*

*In this article two problems of optimization of accuracy of measurement channels of information and measuring systems, after various options of cost restrictions are considered, both problems are solved using the method of uncertain multipliers of Lagrange. The approximate technique for estimation and increase of accuracy of measurement channels of information and measuring systems is presented.*

**S.V. Ostrovoy**  
**Combining Information from Sources Operating  
on Different Physical Principles**

Key words: *fashion; neural networks; technical intelligence; integration of information; information model of the situation.*

*The article presents the method of combining information on air situation from sources, which operate on different physical principles, using neural network.*

**V.V. Syskov, V.V. Borisov**  
**Definition of the Problems of Process Management  
in Complex Organizational and Technical Systems**

Key words: *complex organizational and technical system; process management; collective activity; business process.*

*This article deals with the problems of the implementation of process management in complex organizational and technical systems. These problems do not allow of organing collective activities effectively enough. We analyzed the methods of the implementation of process management and established the need to enhance the requirements of process management.*

*The formalization of purpose and the definition of the problem of process management were carried out. The problem is to align the purpose of collective activity through collaboration, taking into account the rules of activities execution and information support of operation in complex organizational and technical systems.*

**I.I. Cuklyaev**  
**A Method for Construction and a Fuzzy Model of Security Assessment and Selection of  
Classes of Events to Minimize the Risks on the Basis of Neuro Classifier**

Key words: *methods of construction; fuzzy model; neuro-fuzzy classifier; evaluation; information risks; security; selection; class actions; sources of risk; systemic factors; system dynamics.*

*The article discusses the methodology for constructing fuzzy model and security assessment and selection of classes of measures to minimize the risks on the basis of neuro classifier. Fuzzy model focuses on adaptive selection of activities with respect to each class of risk, taking into account the dynamics of the system, which can be sent directly to the reduction of risk, the elimination of sources of risk and systemic factors affecting the sources of risk. This model is an integral component of a comprehensive risk management model, part of the developed method for risk management in terms of ensuring the security of information resources, circulating in a distributed information management system.*

## SCIENTIFIC EVENTS

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