

**BIOLOGICAL SCIENCES**

***Belyi P. N. Chorologic features of the lichenoflora of spruce forests in Belarus: latitudinal distribution of lichens* ..... 3**

*Summary*

During the carried-out research features of zone distribution of the lichens growing in norway spruce forests of Belarus are established.

One of the characteristic features of lichens flora of the norway spruce forests of the Republic of Belarus is expressed zonality which is showing in decrease in a share of boreal and increase in a share of nemoral species of lichens at advance from the north to the south. That characterizes such general regularity, as gradual reduction of a role of boreal species in composition of vegetative communities at replacement of the woods of south taiga type from the north to the south by broad-leaved and broad-leaved coniferous forests.

***Valetov V.V., Guminskaja E.J. Species diversity of mammals in Mozyr Polesseye region* ..... 11**

*Summary*

Results of field researches of fauna and calculations of indexes of biological diversity of Shannon-Wiener, uniformity index to Pilow and an index of specific wealth of Margalef on a specific variety on the territory of Lelchitsky timber enterprise of the Gomel area are given. Habitats of rare and protected mammals are established. A badger (*Meles meles* L) –the settlement in the Stodolichsky forest area, a lynx (*Felis lynx* L) –in Grebenevsky –5 individuals and in Dubrovsky and Markovsky – on one individual is revealed. The smallest specific variety is characteristic for the Zhmurnyansky forest area of  $H'_{zh}=1,27$  ( $E=0,55$ ) and Markovsky – $H'_M=1,33$  ( $E=0,54$ ). The same territories are characterized by the smallest specific richness of  $d_M=1,504$  and  $d'_{zh}=1,333$ .

***Kopytkov V.V., Okhlopkova N.P., Kaverin V.S., Borovkov A.V., Taibergenov J.A., Seilgazina S.M. The scientific basis for the use of composite polymeric drugs in forest growing* ..... 18**

*Summary*

The paper reports the results of an investigation on the use of polymeric compounds in the *Pinus sylvestris* and *Haloxylon aphyllum* seedling production and covers the effects of different techniques for presowing seed treatment on the growth and development of the seedlings.

The treatment of root systems of forest tree seedlings with the polymeric compounds 'Korpansil' and 'Tamyrkush' was demonstrated to encourage the survival of the plants and increase the current height increment of artificial stands.

***Kudritskaja A.P., Lebedev N.A. Species diversity of ichthyofauna of small rivers in Jelsk District* ..... 26**

*Summary*

There is information about fish species variety of some small rivers of Yelsk region. It is found out that specious variety of ichthyofauna of research rivers is 12 species, referred to 4 orders, 6 families and 12 genus. Maximum quantity of species was found out in the lower reaches of the Batyvlya.

**Nazarchuk O.A. Variability of linear dimension and eggs shape of birds belonging to Sterninae subfamily..... 33**

*Summary*

The comparative analysis of oomorfological parameters of two modeling types of the morwennols nesting in habitats with various extent of anthropogenous transformation, revealed statistically significant differences of a form of eggs. The form of eggs is informative parameter which is expedient for using in bioindicator researches.

**Poznjak S.S., Shimanskaja A.A. Assessment of heavy metals content in the lowland peat soil of Mozyr Polesye region ..... 37**

*Summary*

Evalnation study of the content of the heavy metals in the peat lowland soil of Mozyr Polesie revealed that the gross content of manganese, copper, nickel and zinc doesn't exceed the MPC/UEC in the investigated soils, while in some samples of soil the concentration of heavy metals of copper and nickel exceeded the average regional clark for peat soils.

**Pozyvajlo O.P., Kotovich I.V., Razumovskij N.P., Soboleva J.G. Features of fresh cows' protein metabolism at different lactation periods under the condition of industrial milk production ..... 45**

*Summary*

The indicators of protein metabolism of black-and-white breed cow heifers of the Closed Joint Stock Company «Olgovskoye» Vitebsk region are investigated in the initial and final period of lactation. Low level of total protein, serum albumins and reduced activity in plasma aminotransferase of heifers was set up. It indicates a lack of work of protein-synthesizing system of the body of the animal group.

## **PEDAGOGICAL SCIENCES**

**Klinov V.V., Klinov M.V. Theoretical foundations of leisure culture formation among high school students of village schools ..... 50**

*Summary*

In the article questions of the organisation of free time of senior pupils of rural schools are considered. The maintenance of structural components of leisure culture of senior pupils of rural schools is allocated and opened, criteria and levels to form leisure cultures are revealed. The basic stages of the technique directed on the formation of leisure culture of senior pupils of rural schools are defined.

**Koshman M.G., Starchenko V.N., Shatjuk T.G. Design of the material and technical components of modern physical educational environment ..... 57**

*Summary*

The article deals with the problem of building material and technical components of modern physical training, sport and educational space.

Two groups of its functions (the general and special) are allocated. Principles of the organisation of a material component of the modern physical training, sport and educational space. It is proved that designing acts as a condition of development of a material and technical components by means of creation of its strategic project.

**Lemeshkov V.S. Sports achievements as a multifactorial phenomenon in the process of highly qualified racewalkers training ..... 62**

*Summary*

The issue of this article is aspiration for the achievement the highest sport results which are a peculiar feature of sport as a many-sided social phenomenon. Alongside sport results step forward as an integral product of the whole sportsmen's preparing system.

<b>Parafijanovich T.A. The theoretical model of the students' self-guided study organization at tertiary college .....</b>	<b>68</b>
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*Summary*

The article describes the theoretical model of student self-governing organization as a condition of individual and professional development of the students of higher college. The presented model is developed considering individually oriented, systematically active, competent, cultural studies approach to the organization of student self-government. Objective, methodological, principles block, contents, technological, resource, effective blocks of the developed model were characterized in the article.

## PHYLOLOGICAL SCIENCES

<b>Borisenko V.J., Zhuravskaja L.V. Occasional words in the language of texts by Nina Matyas .....</b>	<b>76</b>
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*Summary*

Occasional / nonce words in N. Matiash's poetic texts are formed mostly by morphemic means on the basis of the stems that exist in the literary Belarusian language. Some minor deviations are conditioned by the fact that some verbs are derived from the words invented by the author. Semantics of the nonce words is specified by the context, their syntactic relations with the words different from the literary language semantics, and by their transferred image-bearing use.

<b>Bochkar T.P. Lexical variation of phraseological units as a result of realization of the linguistic characteristics of their components (on the basis of the Belarusian and Russian languages) .....</b>	<b>81</b>
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*Summary*

The article deals with one of possible reasons for lexical variation within Belarusian and English phraseological units – the actualization of the word qualities of their constituent parts. Here the paradigmatic potential of the variable lexemes is meant. The latter are intuitively perceived as words in the native speakers' consciousness even in case of complete loss of their lexical meanings. It is shown that lexical variation of phraseological units does not only occur within motivated expressions, but also within non-motivated phraseological units.

<b>Glazko P.P. The narrative component of journalistic essays in English and Belarusian languages.....</b>	<b>85</b>
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*Summary*

The present article considers the discursive markers of the narrative component in texts of publicistic essays in the English and Belarusian languages. The results of the logical and comparative analyses elucidate common and different ways of linguistic representation of the narrative component in both the languages.

<b>Zežulevich A. V. Functioning of ageless art subjects in Russian literature at the turn of XIX-XX centuries.....</b>	<b>90</b>
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*Summary*

The article deals with the features of being the eternal plots about art in the Russian literature on the boundary of the XIX<sup>th</sup>–XX<sup>th</sup> centuries. The eternal plots about art can be traced back to a myth and they are defined as frames that are steady mental structures which actualization in literary process is caused by historical and cultural situation. By the example of functioning the eternal plots about Orpheus, Pied Piper, Pygmalion who sold his talent in creativity of the realist and modernist writers the basic philosophic and aesthetic peculiarities of the epoch on the boundary of the XIX<sup>th</sup>–XX<sup>th</sup> centuries are found and they testify to new understanding of essence of creativity and to formation of a new art paradigm.

<b>Ioskevich M. M. "Interpretive units": as an artwork's communicative center .....</b>	95
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*Summary*

The article deals with the problem of interpretation. The main purpose the interpretation must be studying of style of a literary text. Style of a literary text is considered to be a dialogue between the author and the reader. This dialogue takes place in components of style – «interpretational knots», which provide the interpretational potential of a literary text.

<b>Krokhmalnik A.J. Means of presenting visual and gestural expressions in literary texts.....</b>	99
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*Summary*

Typical models of language representation visual and communicative units are described in the article. The main verbalization words of visual and kinesic communication are shown. Regular and irregular models of language representation of nonverbal communicative units are defined. Structural and semantic distinctions between models, static character of visual communicative units and dynamic character of kinesic communicative units are noticed.

<b>Prokhorenko L.V. The semantic variability of author's metaphors in translated texts (based on the novel "Eugene Onegin" by Alexander Pushkin) .....</b>	103
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*Summary*

The article deals with the correspondence types of A. Pushkin's metaphors by translating the novel «Eugene Onegin» into the Belarusian language.

<b>Starovoit M.G. Functioning particularities of the words with the meaning of indefinite amount in speech .....</b>	107
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*Summary*

The basic models of semantic derivation of language units of lexico-semantic field «quantity» are considered in this article. There are five dominant clause models reflecting the situation of quantitative perception in the Russian language. Verbs of quantitative perception, verbs of perceptive semantics, and verbs of quantitative development play the role of clause predicates with the proposition of quantitative perception.

<b>Chalova O.N. The role of the category of politeness in communicative organization of scientific discourse.....</b>	113
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*Summary*

The article considers the problem of speech behaviour of conference discussions' participants. The general objective of the paper is to determine the role of the category of politeness on linguistic and pragmatic arrangement of conference discussions. Our pragmalinguistic analysis shows that the category of politeness predetermines such aspects of conference discussions as their illocutionary and structural characteristics, peculiarities of speech initiative transition, the use of specific tactics and strategies. etc.

<b>Shulga N.V. Reduplicative formations' translation algorithm (on the basis of Belarusian, Russian and English languages) .....</b>	119
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*Summary*

This article displays an original heuristic algorithm used for the translation of reduplicative words and word forms, accompanied by methodological recommendations on cross-language transfer of reduplicative formations in Belarusian, Russian and English.

<b>Jadchenko E.I. Symbolic implementation of the topik-focus structure in the migrant's discourse .....</b>	126
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*Summary*

The paper was written in the linguistics discourse analysis. As a result of the primary analysis author allocated a basic theme stated in the refugee discourse, described the specifics of individual thematic division of the world for certain fragments. This article presents the experience of the secondary-depth analysis of focal and topic structure, implemented as a separate unit in the thematic structure of the refugee discourse. On the methodological-operational level the author uses the concept of discourse picture of the world and offers the possibility of reconstruction of this from the individual discourse of respondent. The article demonstrates the potential of linguistic methodology for the social sciences and provides an integrative view of the object under study.

***Evseenko M.U. Expressive accentuation of the sentence parts in literary works for children (on the basis of texts by P. Misko) .....***

133

*Summary*

This article presents a qualitative, systematic characterization of the expressive selection of the sentence members in literature for children by P. Misko. Definition of expressiveness of the text, segmentation, linking that are supported by relevant examples from the novel P. Misko «The Adventures of Bulbobov» are given in the article.