2013

№4

V.V. ALEKSASHINA

**NEOINDUSTRIALIZATION OF RUSSIA. HISTORY LESSONS**

*In article historical development of three modernizations (and industrialization) is briefly stated to Russia at 18-20 eyelids: Peter I reforms, «Great reforms» the end of the XIX century and socialist industrialization in the USSR. Evolution of deindustrialization of today's Russia is considered, the conclusion is drawn on an absolute necessityof new industrialization of the country.*

***Keywords:*** *industrialization, the modernization, catching-up development, reforms, industrial construction, liberalization, privatization, deindustrialization*

E.V. BRUMA

**MODELLING THE DYNAMICS OF STRUCTURE**

**OF HANDICAPPED GROUP OF THE POPULATION**

**ON THE EXAMPLE OF THE OREL REGION**

*A mathematical model of the changing age structure of the population of the region. The population is considered as a system consisting of three groups: working age, younger and older than itself. Model is a system of differential equations with respect to shares of the above three age groups in the general population and the corresponding initial conditions. The model parameters are the coefficients of fertility, mortality and age-side moves, obtained by treatment of statistical demographic data in a wide range of time. Adequate description of the model changes in the age structure was confirmed by comparison with known statistical data on the Orel region over a 14-year span from 2000 to 2013. The forecast for the next 13 years from 2014 to 2026. Confirmed for the Oryol region national trends of population aging and reducing the share of working-age population contingent in composition of population.*

***Keywords:*** *age groups, working-age population, modeling, system of differential equations, an aging population, fertility and mortality rates, forecasting.*

N.Y. SALOVA

**RECOMMENDATIONS ON THE ORGANIZATION**

**OF IMPROVEMENT OF THE CITY OF BRYANSK**

*The article covers problems of landscaping and beautification of urban areas on the example of the city of Bryansk and proposed the establishment of an electronic map of the city with the application of all existing green plantings.*

***Keywords:*** *gardening and landscaping, city territory, card of greenery*

V.I. KOROBKO, S.V. BOYARKINA

**COMPATIBILITY WITH HUMAN WORKING**

**AND LIVING CONDITIONS**

*Considered scientific compatibility problem with the terms of its human labor, welfare and recreation. Results of the analysis of some parameters of the person ergonomic through law lotogo zone section. The questions of physical power human perception of sound and light signals, probabilistic estimates of the operator, as well as some problems vibrating tion human biomechanics.*

***Keywords:*** *working conditions, the golden section, ergonomic parameters of the person, vibration Zion biomechanics*

K.N. LAPSHINA, S.G. TULSKAYA

**WORKING OUT OF SOFTWARE FOR ANALYSIS**

**OF THERMAL COMFORT INDOOR THE RESTAURANT COMPLEXES**

*Tightening requirements to ensure comfort in the premises of restaurant complexes leads to the need for clarification of existing and development of new methods of analysis and design of systems to ensure climate. In this regard, the article presented is current and up to modern trends. This article analyzes to ensure thermal comfort in rooms and restaurant complexes proposed improved method of calculation. The software is developed for calculating the parameters of microclimate in order to create zones of thermal comfort in premises of restaurant complexes.*

***Keywords:*** *thermal comfort, restaurant facilities, software*

N.P. UMNYAKOVA, ".S. ANDREIZEV&, V.&. SMIRNOV

**THE EFFECTIVE CONSTRUCTION SOLUTION OF THE BUILDING**

**ENVELOPE’S NODE AND BIOSPHERE COMPATIBILITY**

*A new solution of the wall, monolithic floor and the balcony slab interface is considered. It is a loadbearing heat insulating element Schöck. The three-dimensional temperature fields were calculated, the specific heat flow for were obtained in two cases: with use of load-bearing heat-insulating element Schöck and for traditional solution of this node. The effectiveness in energy saving of using this element in terms of biosphere compatibility is stated.*

***Keywords****: thermal protection of buildings; heat loss;the wall, monolithic floor and the balcony slab interface; reduced total thermal resistance, heat flow, load-bearing heat-insulating element, biosphere compatibility*

E.A. FEDORENKO, M.D. AKSENOV, R.O. PETROV

**EFFICIENCY OF USE OF WASTE OF THE INDUSTRY FOR**

**PRODUCTION OF DRY CONSTRUCTION MIXES**

**ON THE BASIS OF THE PLASTER KNITTING**

*Results of pilot studies of influence of structures of dry plaster mixes on their durability are given. On the basis of the conducted pilot researches possibility of use of waste of the industry is shown.*

***Keywords:*** *dry construction mix, plaster knitting, industry waste, mechanical properties*

POTAPENKO O.S., MARUSOVA E.I.

**PUBLIC-PRIVATE PARTNERSHIP AS A TOOL**

**FOR THE REFORMING HOUSING AND COMMUNAL SERVICES**

**OF THE CITY**

*The goals and objectives of the research related to the analysis of the existing problems and improve the compatibility of the biosphere of housing, development of organizational and economic mechanisms to address them in a public-private partnership.*

***Keywords:*** *public-private partnerships, housing and communal services, the cluster*

L.A. GULABYANTS

**RADON ROLE IN THE SPHERE OF ACTIVITY OF THE PERSON**

*The article describes the positive and negative effects of exposure to radon. It is shown that in recent decades has become an urgent problem of exposure to radon in buildings.*

***Keywords:*** *habitat, buildings, radon, radon risk, the use of radon*

E.G. TSUBLOVA

**RESEARCH COMMUNITY BIODESTRUCTORS IN URBAN ECOSYSTEMS**

*The paper presents the results of the study of biological diversity biodestruktors some objects housing the city of Bryansk. Determined systematic affiliation biodestruktors organisms.*

***Keywords:*** *biodamage, biodestructor, residential premises, microbocenos, mikocenos*

G.A. PTICHNIKOVA

**PROBLEMS OF SUSTAINABLE URBAN DEVELOPMENT CONSIDERING THE NEGATIVE IMPACT OF HYDROPOWER PROJECTS ON BIOSPHERE (CASE STUDY OF THE LOWER VOLGA REGION)**

*The article raises the problem of accounting for the negative impacts of hydropower on biosphere resources of the region in the development of urban and rural settlements. The author reveals the developed methodological framework for the assessment of the impact in urban planning documents. Justification of the results carried out by the example of settlement system and cities of Lower Volga region, The South of Russia.*

***Keywords****: biosphere, settlement system, cities, villages, natural complex, urban planning, Lower Volga region, waterworks*