

## **PRESERVATION AND UPDATING OF THE ARCHITECTURALLY HISTORICAL ENVIRONMENT OF REGION ON AN EXAMPLE OF THE SAMARA REGION**

**T.V. Vavilonskaja**

The article begins with the analysis of key concepts for the author «the architecturally and historical environment» and «historical region». The object of research chooses the architecturally and historical environment of the Samara region which specific features are considered as a key (a code of identification) to its preservation and the further development. The place and a role of the Samara region among other regions of the Middle Volga is defined. The author opens methodology of sections on protection of a heritage and its use in the tourist and recreational purposes in a territorial planning schemes on example of the Samara region. The article details the basic approaches to the development of this document. The concept of the author is based on representations about a historical and cultural skeleton of region and a tourist and recreational cluster as one of the best models of regional development.

**Keywords:** the architecturally and historical environment, historical region, a code of identity, a historical and cultural skeleton, a vector of preservation, a vector of updating, tourist and recreational cluster, territorial planning.

## **ROD, LATTICE STRUCTURES AND ALL-METAL SHELLS OF BUILDINGS FROM THE 2ND HALF OF THE XXTH CENTURY UNTIL THE BEGINNING OF THE XXI CENTURY**

**S.N. Krivoshapko**

At old ages, iron was used as reinforced elements in stone laying. But it became as building materials only after appearance of modern metallurgy. Cardinal changing in the development of metal structures appeared at the beginning of the XIXth century when they began to apply cast iron pillars instead stone and brick pillars. In the paper, rigid metal structures are described beginning from the pyramid of the Louvre and ending by the most important objects erected in the XXI century.

**Keywords:** metal ribbed-and-circular domes, lattice shells, rod structure, metal unique large-span structures.

## **THE IMPACT OF HISTORICAL AND CULTURAL SIGNIFICANCE OF THE LIGHT INDUSTRY FACILITIES ON ITS MODERN USE**

**A.A. Chadovich**

The article reviews significance of light industry facilities for history, culture and architecture. Author analyzes international and native legal documents and defines several terms that determines value of these objects.

The current state of light industry facilities determines the need to create the strategy for its contemporary use. Author offers to use the architectural modeling to achieve this goals. One of the most important stages of that modeling is to identify the historical and cultural significance of the objects. The protection subject of the light industry facilities and its location affects the ways of its modern use. In the end of the article author draws conclusions and propose amendments for existing native legal documents for protection and modern use of historical industry facilities.

**Keywords:** industrial heritage, industrial culture, adaptive reuse, light industry facilities, adaptation, conservation, cultural heritage, protection subject, architectural modeling.

## **NORMATIVES OF TOWN-PLANNING PROJECTING: CHANGES IN THE LEGISLATION, PRACTICE, DEVELOPMENT PROSPECT**

**A.V. Potapenko**

The article is concerning of preparation of regional and local normative of town-planning projecting in connection with the changes made to the Town-planning code of the Russian Federation.

**Key words:** town-planning code of the Russian Federation, normative of town-planning projecting, types of objects of regional and local importance, objects of rationing.

## **THE DRAWING OF ARCHITECT AS THE GENERATOR OF ITS PROFESSIONAL CULTURE**

**O.G. Maksimov**

Architectural drawing has a value, primarily as a signification, and sometimes defining the circumstance of architectural creation. He does not value in age computer as a crucial moment in the process of formation of the architectural image. From this point of view it is necessary to fine workmanship and culture of architectural drawing, ammunition of the architect to perform creative idea. This has to be a defining moment in the process of learning.

**Key words:** architecture, drawing, project, competition.

## **COPYRIGHT IN ARCHITECTURE: THE SKILL OR SUCCESSFUL COMMERCE?**

**I.V. Topchiy**

The legal conflict between authors of the architecture`s objects and their clients have a wide public resonance abroad. In our country we can see only single cases on copyright in architecture. But the increasing in complaints shows the positive dynamics in number of claims relating to copyright architects and makes the consideration of issues of copyright protection to date. In June 2014, Moscow hosted the Plenary Session of the Russia Union of Architects which dedicated to intellectual property issues in architecture. It was suggested several options for protecting the rights of authors, but none of them has received general support. The author of the article was conducted a sociological survey on intellectual property issues at the plenary. These studies have shown that the obstacle to the settlement of disputes "by peaceful means" is a low level of knowledge in the field of law. The author offers architects and urban planners to improve their skills in the field of intellectual property.

**Keywords:** professional development, continuing education, intellectual property in the architecture.

## **«THE NEW METHOD OF ARCHITECTURAL THINKING» AND THE EXPERIMENTAL RESIDENTIAL BUILDING IN THE NOVINSKIY BOULEVARD IN MOSCOW (1927-1930): CONTENTS OF THE EXPERIMENT**

**Yu.P. Volchok**

The article based on archive documents and the long experience of knowledge about the every-day life of the house in the Novinskiy Boulevard in Moscow covers its arrangement and analyzes the contents of the experimental dialogue between functional architectural and constructive technological aspects of shaping implementing the concept of "the new method of architectural thinking" published by M.Ya. Ginzburg in SA Journal in 1926.

**Keywords:** residential building in the Novinskiy Boulevard, experiment, architecture, space frame, technology, tectonics, monument of historical and cultural heritage, symbol of avant-garde architecture.

## **CONVERGENCE OF SCIENTIFIC AND METODICAL FORMS OF KNOWLEDGE AS SYSTEMIC BACKGROUND FOR EDUKATING OF AN ARCHITECT**

**I.S. Sarkisova**

The article analyses of importance of method system for the preparation and formation of ideology of a future architect (bachelor and master). Concrete degree works of MSUCE ICA graduates shows consistence and effectiveness of methodological system which ensures readiness for their practical designing, scientific analysis and forecasting, solving of wide range of tasks of sustainable development of environment.

**Keywords:** systemic education and analysis; science and practice; visual culture; innovation principles of creation of environment; architect's ideology.

## **IVANOVO ARCHITECT PANOV ALEKSANDR IVANOVICH UNKNOWN FACTS ABOUT THE LIFE AND CREATIVITY**

**I.E. Shakhnov N.S. Saprykina**

This article speaks about the life and creativity one of the most famous architects of the Ivanovo of the first graduation of the faculty of civil engineering of Ivanovo-Voznesensky Polytechnic Institute in 1925. Article reveals previously unknown material for a personal biography. Panov Aleksandr Ivanovich is the author of a great number of municipal and residential buildings in Ivanovo and Ivanovo region. The most famous and unique building is a horseshoe-shaped residential unit «Dom-podkova» in constructionism style.

**Keywords:** Ivanovo, Ivanovo-Voznesensk, architecture of Ivanovo, architects of Ivanovo, constructivism, neoclassicism, architecture.

**№10(202) 2014**

## **ARCHITECTURAL DESIGN OF THE SCIENCE-TECHNOLOGICAL BUILDING COMPLEXES DEDICATED TO INNOVATION WORKS IN FOREIGN COUNTRIES. AUSTRALIA**

**I.V. Dianova-Klokova D.A. Metanyev**

The article contains some examples of the science\technology buildings dedicated to innovation works - the basic building type erected in the university campuses, technoparks, science\technology clusters and so on. Erected in Australia 14 buildings (and their complexes) intended for innovation works are described and illustrated. Intended for scientists, architects, students and teachers of the Architectural Schools.

**Keywords:** innovations, science\technology building complexes, multi-tenant buildings, incubators, science/business hotels, sustainable architecture.

## **IVANOVO-VOZNESENSK IS "THE GARDEN-CITY": FROM IDEA TO REALIZATION**

**M.A. Karpova**

In this article considers the problems of formation and development of the main principles of organization of Ivanovo-Voznesensk, as the «garden city» in the first years after revolution. «The garden-city» is considered as a single continuous radial-ring system of green spaces of urban boulevards, large public residential centers and landscaped highways with the identification of the main city-building park axes, cores and reserve centers of four values. On the basis of the first time presented the project planning area (1928) explores the main approaches to the organization of urban spaces, the emergence of the concepts of «holistic urban structure», «industrial Park», «architectural-spatial hierarchy of the city, and their further impact on the reorganization of the modern urban space.

**Keywords :** «the garden-city», radial-ring system, «dualism», «industrial Park», the landscape and recreational multifunction space, green highway of the river, territorial zoning, reserve centers of four values.

## **THE PROCESS OF PRESERVATION OF MONUMENTS OF ARCHITECTURE. SAVE OR RUIN?**

**L.A. Viktorova**

Abstract the processes of conservation of monuments of architecture are often held in an out-of-control and lead to the problem of salvation. In all probability, in the preservation of architectural objects should be more confidence in the domestic experience, and the experience of those countries where conservators are not afraid of the so-called novodela and boldly applying modern methods of rebuilding what has been difficult to restore.

**Keywords:** conservation, restoration, salvage.

## **THE NATIONAL CENTER OF THE GREAT TOKYO**

**Yu.T. Komarov**

There are international and regional characteristics of architecture public complexes of Japan on the example of one part of the Park Ueno in Tokyo. The main monuments of historical and cultural heritage, located in the Park and an integral

part of the national wealth and the heritage of Japan are shown. The composite role of public buildings in the formation of the urban environment in the capital is demonstrated.

**Keywords:** museum, library, public facility, structure, formation, development, heritage, architectural monuments.

**№09(201) 2014**

### **PUBLIC SPACES OF THE CITY OF SKYSCRAPERS**

**V.V. Aurov E.V. Ulyanova D.M. Bausheva**

The article examines the hyper urbanized city environment as a single organism, which aims to organize social relations through quality of public spaces. In the scale of the city skyscrapers perform the role of public areas, including the atrium volumes which carries the qualities of the public zones and have a greater potential than other urban components.

**Keywords:** hyper urbanized environment, public space, skyscrapers, atrium space, spatial relationships.

### **FIRE REGULATION IN CONSTRUCTION: FROM HISTORY TO MODERNITY**

**V.E. Tatarov E.A. Meshalkin**

In article the task to analyse requirements of new technical regulations, standards and sets of rules isn't set, and the attention is focused on some historical stages of formation and development of fire-prevention rationing in Russia, its state at the moment.

**Keywords:** fire safety, regulation, standard setting, build.

### **RESEARCH OF SPATIAL POLARIZATION OF THE POPULATION AND EMPLOYMENT ON THE EXAMPLE OF THE MOSCOW AGGLOMERATION**

**A.V. Potapenko**

The article is devoted to research of distinctions of spatial localization of the population and employment in the Moscow megalopolis. Spatial distributions of population density and the employment density which comparison revealed two characteristic zones with excess and insufficient employment are constructed. Parameters of labor pendular migrations between these zones are calculated. The polarizing model of a coevolution population and employment is offered. The method can be used in spatial planning for forecasting of labor pendular migrations and for evaluation of alternatives of agglomeration development.

**Keywords:** agglomeration, labour pendular migration, population, employment, spatial distribution, polarizing model, coevolution of systems.

### **THE RELIABILITY OF STRUCTURAL SYSTEMS IN TERMS OF RECONSTRUCTION ON THE EXAMPLE OF MINERALNYE VODY AIRPORT**

**N.N. Stolyarov**

This article discusses the experience of reconstruction of the structures of the first class of responsibility on the example of airport Min. water. Shows the problems encountered during the reconstruction of the terminal building, with the use of CAD software . The results of passing the FAA Glavgosexpertiza of Russia".

**Key words:** airports, computer-aided design.

**№08(200) 2014**

### **THE ASSEMBLY OF THE ARCHITECTURAL OBJECT AS THE EMBODIMENT OF THE CREATIVE CONCEPT OF R. KOOLHAAS**

**P.A. Sipkin**

The article describes the embodiment of conceptual regulations of Koolhaas in the real architectural object. The main principle of design of Koolhaas – "montage of experiments", new principles of construction of public buildings and new types of public buildings-hybrids and the general approach of Koolhaas to design are revealed.

**Keywords:** Koolhaas, concept, scenario, patent, montage, experiment, hybrid building.

### **ENERGETICS IN MODERN BUILDING AND ARCHITECTURE**

**I.V. Zhigulenko A.L. Yakovenko**

Life of the modern civilization is not possible without energy, mainly thermal and electric. Now 80% of energy for Russia is from fossil fuels, carbon and nuclear raw material. For the West it is about 50-60%. Western scientists and economists forecast that already by 2030 usage of fuel energy will have reduced up to 40%.

The way out is to develop a non-traditional alternative energy as quickly as possible basing on only WIE (on three its main parts: water, air and rational doses of sun). Autonomous, local or individual power plants for each consumer (either a private owner, a farmer or an enterprise), each household should be a generator of energy, this is the absolute way out from the energetic crisis of all countries.

**Keywords:** non-traditional energetic on WIE, own generation. Power engineering of high-rise and low-rise architecture. The XXI century is an epoch without fuel energy.

### **"GREEN" STANDARDS AND SUSTAINABLE DEVELOPMENT IN THE FIELD OF ARCHITECTURE, SPATIAL PLANNING AND CONSTRUCTION**

**A.Yu. Reteyum**

BREEAM, LEED and other "green" standards are one of the mechanisms for the transition to sustainable development. However, they have a number of disadvantages. The basic valuation model does not take into account the entire production cycle of energy. The standards are oriented to urgent action to reduce emissions of carbon dioxide, although

the hypothesis of anthropogenic warming is not getting the actual confirmation. Glaring weakness BREEAM, LEED and envisaged the introduction of the Russian "green" standard is ignoring the geographical location of certified building, which can impose severe restrictions on the introduction of the means of alternative energy in most parts of the country. Distribution of the national "green" standard requires a number of measures to support innovation.

**Keywords:** "green" standards, sustainable development, BREEAM, LEED, alternative sources of energy.

## **THE EXPERIENCE OF SUCCESSFUL DEVELOPMENT OF THE ECOVILLAGE «NEW VRAJA DHAMA»**

**I.A. Fachrutdinova A.F. Sayfullina**

Article focuses on the experiences of successful development of ecovillage «New Vraja Dhama» in Hungary, which harmoniously combines tradition reconstituted, eco-oriented design solutions and innovative technologies. The article presents the role of the Global Ecovillage Network, sociological and urban planning studies performed as a result of the expedition and the full-scale survey of ecovillage «New Vraja Dhama.» The authors compiled a detailed model of environmental settlements conducted multivariate analysis of design solutions in the area architecture, urban planning and engineering.

**Keywords:** ecovillage, sustainable development, management of natural resources

**№07(199) 2014**

## **A CROSSED HABITAT OF NATURE AND ARCHITECTURE**

**K.A. Lytkin**

The article reveals the aspects of theoretical approach and applied search in newly created environment of human life. The essence of scientific work is the investigation of problems of harmonization of nature and architecture, which are still not widely studied; the study of most contradictory aspects of cooperation between the two environments - artificial and natural ones. Thus the idea of creating of crossed human environment is proposed. On the one hand, it is the result of crossed interpenetration and merge ring of handmade human environment, and, on the other hand, existence of natural environment having the minimal ecological system violation. As a result a united habitat is created which is mutually conditioned by natural environment and artificial architectural habitat with human expediency. The article deals with applied aspects of crossed environment and also proposes the methods and principles of its implementation. It underlines that the maintenance of environment preservation is quite necessary in this process.

**Keywords:** nature and architecture, living environment, natural habitat, artificial habitat, crossed habitat.

## **THE VALUE OF RULES FOR CERTAIN CATEGORIES OF PRODUCTS WHEN DEVELOPING ENVIRONMENTAL DECLARATIONS OF BUILDING MATERIALS**

**P.M. Zhuk**

For providing high qualitative level of development of ecological declarations of construction production (Environmental Product Declarations) it is important to use a technique of an assessment of life cycle, and also to have possibility of specialization of these documents for separate groups of materials and their combinations. In the European countries there is a practice of achievement of specialization by development of rules for separate categories of production (Product Category Rules) which in the subsequent become a basis for declarations of construction materials. The developed rules allow not only to carry out an assessment of a certain construction material, but also to analyze strategy of development of branch.

**Keywords:** environmental product declaration (EPD), product category rules, life cycle assessment (LCA) of building Materials.

## **WORKERS' SETTLEMENTS OF SOVIET INDUSTRIALIZATION AND THEIR ROLE IN THE SUBSEQUENT DEVELOPMENT OF ARCHITECTURAL AND PLANNING STRUCTURE KUIBYSHEV (SAMARA)**

**E.A. Akhmedova A .S. Gnilomedov**

This article discusses the process of Soviet industrialization, its influence on the structure and further urban development on the example of Kuibyshev (Samara). The analysis of the emergence and development of workers' settlements existed in the city.

**Keywords:** working village, Soviet industrialization, Samara (Kuibyshev) architecture, residential and public buildings, the Soviet avant-garde, functionalism, proletarian classicism, modern master plan.

## **ARCHITECTURAL DESIGN OF THE SCIENCE-TECHNOLOGICAL BUILDING COMPLEXES DEDICATED TO INNOVATION WORKS IN FOREIGN COUNTRIES. CANADA**

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The article contains some examples of the science\technology buildings dedicated to innovation works - the basic building type erected in the university campuses, technoparks, science\technology clusters and so on. 16 buildings (and their complexes) for innovation works proposed and erected in Canada are described and illustrated. Intended for scientists, architects, students and teachers of the Architectural Schools.

**Keywords:** innovations, science\technology building complexes, multi-tenant buildings, incubators, science/business hotels, architectural design.

## **DYNAMIC ARCHITECTURE OF THE COMPLEX ARC (French Alps)**

**O.G. Maksimov K.P. Nikitina**

Analyses the creative work of French architect Charlotte Perrin, its cooperation with Le Corbusier and Pierre Jeanneret. Focuses on the principles and methods of architectural-and-planning solutions for the construction of complexes for

sports and relaxation in the mountain landscape based on the author's visual and systematic study of the complex Arc in the French Alps.

**Keywords:** mountain landscape, architecture, recreation complex.

**№06(198) 2014**

## **STANDARD DESIGN IN MODERN CONDITIONS. DEVELOPMENT OF THE SET OF RULES ACCORDING TO STANDARD PROJECT DOCUMENTATION**

**L.A. Viktorova**

According to the plan of work of the Committee of the normative and technical documentation for industrial and civilian use of the National Association of designers for 2013-2014, the development of the JV Model project documentation. The set of rules apply to creating a model of design documentation and is intended for use by customers (investors), design and other organizations-participants of the investment process in the design and construction of new buildings and structures, components and parts. Development of a model project documentation is carried out in order to: -investors' savings to preparing project documentation and providing design engineers with efficient, resource and energy saving, planning, architectural design, engineering and technical, functional and technological and organizational materials used in the design documentation.

**Keywords:** model project documentation, model, model design and model w, model construction systems, model series, model details, products and components.

## **TWO HOUSES – «FOREIGNERS». THE SYSTEM OF «COMPLICATED SIMILARITY» IN SCHECHTEL'S WORKS OF AN EARLY PERIOD. Part 2.**

**N.A. Saprykina I.A. Gudz**

The article is devoted to two early Schechtel's houses. Z.G. Morozov's mansion situated in Moscow is well known to all connoisseurs of architecture. Zarenvilla is built in the city of Graz (Austria): designed by Schechtel's project is not very well known; the information about this object is given by authors for the first time. The houses presented has some specific characteristic – they maybe to call houses - "foreigners" in their cultural-historical surrounding. Composition similarities and differences in architectural monuments are considered in the article. And also some repeated methods and motives which are distinguish the architect Schechtel's works , and at the same time they are part of the «complicated similarity» system and the characteristic feature of Art Nouveau.

**Keywords:** repeated methods and motives, the system of «complicated similarity» in Art Nouveau architecture, early Schechtel's houses, the compositional analysis of buildings, houses – "foreigners", F.O. Schechtel's foreign project, Z.G. Morozov's mansion, Zarenvilla, the city of Graz (Austria).

## **PARAMETRICAL ARCHITECTURE IN MOSCOW**

**I.A. Mamieva A.D. Razin**

Due to increasing interest to design, analysis and application of architectural-and-building structures and erections in the form of various smooth and compound surfaces, it would be interesting to illustrate application of analytical surfaces in architecture of Moscow. In the article, photos are presented; erections and shell covers of Moscow in the form of analytical surfaces are analyzed. It appeared, that in Moscow, only 18 analytical surfaces from 550 described in scientific literature have found the wide application.

**Keywords:** analytical surfaces, parametrical architecture, civil constructions, industrial buildings, architecture of small forms.

## **ON THE HISTORY OF SUPERSTYLES IN ARCHITECTURE Part II. Synergetic interpretation**

**S.S. Zhuykov**

This article covers main outlines an author's conception about the evolution of three superstyles in architecture. There is development of Selim O. Khan-Magomedov's idea about two superstyles (The first is Classical architecture based on the Greek order. The Second is Modernism) and Liudmila P. Kholodova's hypothesis about origination of the third superstyle (as an alternative vector of architectural evolution) in the conception. The conception is founded on the structure-functional synergy model of architecture that represents main evolutionary mechanisms of architecture in its interrelation with material and intellectual cultures.

**Keywords:** synergy Model of Architecture, Architecture of the Future, The Big history, The Theory of Architectural Process.

**№05(197) 2014**

## **SKY-HIGH BLOB ARCHITECTURE**

**V.A. Burmistrov I.V. Zverkov**

This article introduces readers with new achievements in the construction of tall buildings? created on the principles of harmony organic BLOB architecture with the latest discoveries of engineering science in the field of modern support constructions and systems of modern skyscrapers.

**Keywords:** innovative principles of organic BLOB architecture, the harmonic combination of man-made images with living nature in the symbiosis of humans and ecosystems, breakthrough in the development of engineering.

## **TOWN-PLANNING, DEVELOPMENT AND RECONSTRUCTION OF CONTEMPORARY CITIES**

**K.A. Soloviev N.S. Dragushin**

the paper deals with the planning decisions in the development and reconstruction of modern cities that could be implemented now. Also in the article the questions of the regeneration of the urban environment in the conditions of modern development of the city. Article is based on the conclusions and ideas of architects 30 – 70's, in particular by Le Corbusier, Gutnov's, Glazychev, who in the mid-twentieth century, expressed his ideas about urban development and reconstruction of modern cities.

**Keywords:** city, urban planning, regeneration, urban environment, reconstruction.

## **THE CONCEPT OF TRAJECTORY IN SPATIAL CONSTRUCTIONS OF REM KOOLHAAS**

**P.A. Sipkin**

This article analyzes the concept of trajectory – one of the basic semantic layers used in architectural work of Rem Koolhaas. As a result of consideration of various theoretical and cultural aspects of architect design solutions different spatial schemes of public buildings are described and elaborated, which are built with deliberate trajectory (or multiple trajectories) – from spiraling atrium space-channel pervading the entire building and kaleidoscopic space with a choice of trajectory to the creation of the whole space-trajectory – a new, artificial, vertical landscape.

**Keywords:** Koolhaas, trajectory, path, sequence, motion programming, kaleidoscopic, branching.

**№04(196) 2014**

## **DEVELOPMENT OF THE CITY-PLANNING ASPECT OF THE CONCEPT OF HISTORIC PRESERVATION OF MOSCOW ARCHITECTURAL MONUMENTS DURING THE SOVIET PERIOD (1917-1991)**

**N.V. Pereslegin**

This article examines changes in the concept of historic preservation of architectural monuments during the Soviet period (1917-1991). It focuses on the change from protection of individual buildings to the concept of architectural preservation of whole districts within the overall context of urban planning. The article reviews the factors that influenced the often-antagonistic interrelations between urban planning and reconstruction policies on the one side, and preservation of historic districts on the other side. The article emphasizes the contradictions that often arose within the politics of Moscow's city government between plans for urban development and historic preservation, and the important role that the public played in the formation of the concept of historic preservation in the second half of the 20th century. Historical awareness of this complicated process is still instrumental in the everyday work of the Administration of the Cultural Heritage of Moscow for developing its policies and conceptions of architectural preservation, and for the Department's attempts to publicize its views.

**Keywords:** historic preservation, urban planning, architectural heritage, GIOP, Moscow.

## **THE BEST EXAMPLES OF SOVIET ARCHITECTURE IN THE STYLE OF CONSTRUCTIVISM OF THE 1920S IN IVANOVOVOZNESENSK. CREATIVE CAREER OF THE ARCHITECT S.A. MINOFYEV**

**I.E. Shakhnov**

This article speaks about the life and activities one of the first architects of the Ivanovo of the first graduation of the faculty of civil engineering of Ivanovo-Voznesensky Polytechnic Institute in 1925. This architect is the author of the most famous constructivism architecture in Ivanovo such as a domestic building for employees of the State Bank, the first state circus in Ivanovo-Voznesensk, etc.

**Keywords:** Ivanovo, Ivanovo-Voznesensk, architecture of Ivanovo, architects of Ivanovo, constructivism, architecture.

## **METHOD OF ARCHITECTURAL AND BIONIC MODELING OF ECOLOGICAL ARCHITECTURE OF DWELLING**

**I.V. Chereshev**

Within the limits of the ecological approach problems of a sustainable development of inhabited settlements are considered. Influence of methods architectural and bionic modeling on dwelling quality indicators is investigated. The model formconstruction ecological architecture of dwelling is developed. The attention is accented on aspect of optimization of the form and residential building structures. Results of application of methods architectural and bionic modeling are shown by working out of a pilot project of a ecological dwelling house.

**Keywords:** a method, model formconstruction, ecological architecture, dwelling, form and function optimization.

## **TWO HOUSES – "FOREIGNERS". THE SYSTEM OF "COMPLICATED SIMILARITY" IN SCHECHTEL'S WORKS OF AN EARLY PERIOD. Part 1.**

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## **A CREATIVE BREAKTHROUGH INNOVATION BLOB ARCHITECTURE**

**V.A. Burmistrov I.V. Zverkov**

This article introduces readers to a variety of stylistic methods of the leading architects in forming the image BLOBbuilding through the application of the rich palette of special design techniques and materials that led recently to a creative breakthrough in the design and construction of the new Museum objects.

**Keywords:** a creative breakthrough, a rich palette of innovative techniques, new thematic Museum spaces, development of Museum technologies.

## **A MONUMENT AND A CITY. ON UP-TO-DATE COMPREHENSION OF THE BOOK BY A.E. BRINCKMANN "A SQUARE AND A MONUMENT AS A PROBLEM OF CREATIVE FORM"**

**Yury P. Volchok**

The book by A.E. Brinckmann "A Square and a Monument as the Problem of Creative Form" (1908) has been a basis for comprehension of the dialogue between architecture and plastic art in search for ways of urban structure (architectonics) improvement for over one hundred years. This article illustrates with four examples given by the author some possible options of such dialogue focused on better use of architecture's substantive capabilities in the course of creation of a general architectural, creative and urban-development solution.

**Keywords:** architecture, plastic arts, sculpture, urban development, spatial organization, the art of urban planning.

## **A NEW STRUCTURE CATEGORIES SECOND SECTION OF THE MOSCOW TERRITORIAL BUILDING CATALOG**

**Yu.P. Grigorev V.V. Guryev Z.S. Sazhneva L.V. Ivanova**

Moscow territorial building catalog ( MTBC ) is intended for the design, construction organizations in Moscow and other Russian cities , as well as departments and committees of the Government of Moscow , BTI , real estate firms , etc. Moscow scientific research Institute of typology and experimental design specialists developed a new structure and proposed a new name Categories MTBS second section - "Passport actualized projects of buildings and structures ." First section MTBS included passport projects such as the School of Fine Arts , temple complexes , built - in and attached PEI model project complex social protection. Passports actualized projects meet complex new sanitary- epidemiological, architectural regulations on fire safety, energy efficiency and accessibility for people with limited groups of citizens. Updated data set contains information about the development organization design and estimate documentation.

**Keywords:** Moscow territorial building catalog , passports, Categories , updated designs , regulatory requirements, organization developers.

## **ON THE HISTORY OF SUPERSTYLES IN ARCHITECTURE PART I. PREREQUISITES AND HYPOTHESES.**

**S.S. Zhuykov**

This article covers main outlines an author's conception about the evolution of three superstyles in architecture. There is development of Selim O. Khan-Magomedov's idea about two superstyles (The first is Classical architecture based on the Greek order. The Second is Modernism) and Liudmila P. Kholodova's hypothesis about origination of the third superstyle (as an alternative vector of architectural evolution) in the conception. The conception is founded on the structure-functional synergy model of architecture that represents main evolutionary mechanisms of architecture in its interrelation with material and intellectual cultures.

**Keywords:** synergy Model of Architecture, Architecture of the Future, The Big history, The Theory of Architectural Process.

## **ARCHITECTURAL IMAGES OF RUSSIAN WOODEN ARCHITECTURE IN THE WORLD OF ORTHODOX ARCHITECTURE**

**P.G. Romanov**

The article is devoted to the analysis of architectural images of Russian wooden Orthodox architecture. Based on the findings A.V. Opolovnikov about the unified Russian wooden architecture of the past centuries on the materials of the copyright observations wooden typological elements of the Hagia Sophia in Istanbul concluded that there is a single world space architectural images of Orthodox architecture.

**Keywords:** architectural images, Russian wooden architecture, typological elements, a number of epistemological, image and morphology of the object, world space Orthodox architecture.

## **CITY PLANNING AS AN ART OF ACCRUAL ASSESSING THE EXPERIENCE OF MOSCOW PARK TERRITORIES DEVELOPMENT IN THE XX CENTURY**

**M.N. Gurari N.S. Grigorieva**

The authors review the buildout of Moscow green public realm in the XX century within the frame of major urban development programs of different type. The most demonstrative case in point is a continuous green zone along the Moscowriver, which was formed by the establishment of a park territory of the Agricultural Exhibition in 1923 (later reshaped into the Central Gorky Park), and the creation of the green belt of the Moscow State University on the Vorobiev (former Lenin) Hills and the green sport terrain of the Luzhniky Stadium in 1950s. However, the urban construction practice knows many cases when setting new objects not only impeded the advancement of green zones, but was working towards their reduction. The authors propose to change the location of some new large construction developments in order to enhance the Moscow green realm – the real wealth of the capital.

**Keywords:** urban development programs, green public realm, parkland system, continuous parkband, natural heritage.

## **ARCHAEOLOGICAL AND ETHNOGRAPHIC PARKS. EXPERIENCE DESIGN DIPLOMA**

**O.G. Maksimov E.A. Semagina**

The article concerns the principles of formation of ethno-archeological park, large polyfunctional objects of history, culture, architecture. Methodology for their architectural and planning solutions with regard to circumstances and the relationship with landscape, are considered examples of degree works of the Moscow architectural institute. There are many archaeological and popular, in Russia they are almost non-existent.

**Keywords:** landscape, ethnography, archaeology, architecture, design, park, tourism.

## **PALACE OF THE SOVIETS 1957 A.V. VLASOV'S – THE FLAGSHIP OF USSR IN THE RENOVATION OF WORLD ARCHITECTURE OF THE LATE 1950-60S.**

**D.I. Mikheikin**

Attracts the attention of instant restructuring in a creative way A.V. Vlasov's during the second half of 50s: experienced architect has just built Khreschatyk in Kiev (a typical example of "Stalin's empire") immediately makes the project which outpaces a time and defines the era of 60 -70s. In his new handwriting which is concentrated in the project of the Palace of the Soviets 1957, all signs are visible at once of a new style of architecture of the USSR in 1960 – 70s which is coming soon. What is revealed in the analysis of some of the iconic buildings of that time, including having a special property of socialist architecture of the USSR – the "cosmic" scale. A worldwide attraction to cosmism, dematerialism and imagery in architecture are fully reflected in this outstanding project.

**Keywords:** palace of the Soviets 1957, A.V. Vlasov, soviet architecture 1960s, world expo 1967 in Moscow, A. Burov, M. Posokhin, B. Thor, V. Svirsky, N.V. Nikitin, L.I. Batalov, D.I. Burdin, V. Zharov, B. Oskin, D. Lisichkin, Y.Y. Zakaryaev, K.S. Shehoyan, Mies van der Rohe.

## **THE SOLUTION OF SOCIAL AND CULTURAL PROBLEMS IN THE PRE-WAR STALINGRAD DURING THE RECONSTRUCTION OF BUILDINGS TZARITZYNSKY**

**S.S. Kalashnikov P.P. Oleinikov E.P. Oleinikova**

Considers poorly studied questions of reconstruction and the superstructure of buildings in the centre of pre-war town in the period of transfer of the capital of the lower Volga region of Saratov in Stalingrad. Examples of the most famous addins analyzed specifics of reconstruction. Are the archive materials about reconstructed in Stalingrad residential and public buildings.

**Keywords:** the lower Volga region, Stalingrad, architect, Krayprogor, reconstruction, the add-in.

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## **ARCHITECTURE OF NEW GENERATION - MYSTERIOUS SURPRISE «BLOB - CULTURE»**

**V.A. Burmistrov I.V. Zverkov**

This article introduced the new stylistic trend in modern architecture that emerged at the beginning of this century. Presents an analysis of the sources of innovation blob culture medium which is rapidly developing attractive blob architecture. This article describes the basic principles and features of a new architectural style. Presents the best projects and build this architectural approach with descriptions and comments of the creative team "Architectural firm "Stilistica". Article submitted blob typological variety of buildings and structures, provides a detailed description of almost all kinds of enclosures used by the architects of this style direction.

**Keywords:** innovative blob architecture of hypermodern generation, harmonious fusion of spatial images with wildlife in symbioses human and ecosystem, fascinating series of associative character bio, plastics in the bends of the new movement of modern urban environment.

## **PROJECTS OF PRE-WAR STALINGRAD AS CULTURAL MONUMENTS**

**P.P. Oleynikov E.P. Oleynikova**

The questions about the activities of Stalingrad Moscow architects and their impact on the architectural and urban appearance of the pre-war city are considered. Presents new archival materials designed for Stalingrad these architects of large residential and public buildings. Some of the documents introduced into scientific circulation for the first time.

**Keywords:** Moscow, Stalingrad, architect, artist, Giprogor, landscaping, general plan.

## **«HUMANIZATION OF TECHNOCRATIC UTOPIA» IN WORLD ARCHITECTURE OF 1950-60S**

**D.I. Mikheikin**

Having analyzed the later-day creativity periods of the epigones of modernism - Le Corbusier, Gropius, Mies van der Rohe - as well as the next generation of architects - Saarinen, Niemeyer, Utzon – one can see apparent revision of the values of the new architecture in the 1950s and 60s and transformation of modernism. As one can see, utility and functionality which were the only determining factor in shaping of the "International" architecture in the first half of the XX century, in the second half of the 50s quickly gave way to the imagery and the humanization of the architectural environment, which has determined the development of mainstream world architecture until today .

**Keywords:** modernism, Le Corbusier, Gropius, Mies van der Rohe, Saarinen, Niemeyer, Utzon, the image in the architecture, the transformation of modernism.

## **ARCHITECTURAL DESIGN OF THE SCIENCE-TECHNOLOGICAL BUILDING COMPLEXES DEDICATED TO INNOVATION WORKS IN FOREIGN COUNTRIES. FRANCE**

**I.V. Dianova-Klokova D.A. Metanyev**

The article contains some examples of the science\technology buildings dedicated to innovation works - the basic building

type erected in the technoparks, science\technology clusters and so on. 12 buildings (and their complexes) for innovation works proposed and erected in France are described and illustrated. Intended for scientists, architects, students and teachers of the Architectural Schools.

**Keywords:** innovations, science\technology building complexes, multi-tenant buildings, incubators, science/business hotels, architectural design.