

## **THE HISTORY OF THE ARCHITECTURE OF THE NEW TIME 1913 – PROLEGOMENA OF CONTEMPORARY ARCHITECTURE**

**Yu.P. Volchok**

The history of the Recent-Time architecture, which is a full-fledged integral part of the Recent Time history, starts from the years 1913-14. These years may form comprehensive prolegomena to the understanding of contemporary architecture's dynamics as the middle point between the culture and the civilization. This is why the detailed chronological reconstruction of events embracing the dialogue of the cultural requirements and the opportunities provided by civilization, since the Russian National Exhibition in Kiev in 1913 is so important.

**Keywords:** prolegomena, contemporary architecture, dialogue of culture and civilization, chronology, reconstruction, Renaissance.

## **PROSPECTS FOR THE DEVELOPMENT OF ONE OF THE DIRECTIONS OF PREFABRICATED-CAST-IN-PLACE METHOD OF CONSTRUCTION OF RESIDENCE AND PUBLIC BUILDINGS**

**V.A. Dorf R.O. Krasnovsky D. E. Kapustin K.V. Rogachev**

The article demonstrates the advantages of prefabricated-cast-in-place method of construction of residence and public buildings of reinforcement blocks with load bearing steel fiber concrete forms enabling using all the advantages of the total prefabricated construction of buildings, rejecting the steel forms and providing strength and density of the structure blocks and, simultaneously, using of a wide spectra of architectural and space-planning decisions.

**Keywords:** total prefabricated construction, reinforcement blocks, stay-in-place forms, steel fiber concrete.

## **ORGANIZATION FORMS OF ARCHITECTURAL PRACTICE AT THE END OF XX- BEGINNING OF XXI CENTURIES**

**A.N. Novikova**

The article analyzes the organizational structures of architectural practice since the beginning of the century to the present day, identifies and describes the new network forms of architectural design. Definitions are given in the following forms: architectural workshop, project Corporation, network architecture project.

**Keywords:** architectural practice, history of office organization, studio, workshop, atelier, corporation, network design, nonprofit network design, open design workshop.

## **SELF-OSCILLATION OF CONTINUOUS-NONHOMOGENEOUS CIRCULAR PLATE, LYING ON THE NON-HOMOGENEOUS, ELASTOVISCOUS BASE**

**E.Z. Mamedov**

The work investigates axially symmetric oscillations of the circular non-homogeneously elastic plate provided that the plate lies on the nonhomogeneous, elastoviscous base. It is supposed that the modulus of elasticity and density depend on the current radius and the coordinate of the plate's thickness. Given the fact that the equation of the motion relative to the deflection is complex, in the settlement of the task approximately analytical methods of division of variables and the Bubnov-Galerkin method are applied. The numerical analysis was carried out with the concrete values of concrete parameters. Results are given in the form of tables and schedules.

**Keywords:** oscillation, heterogeneity, equations, frequency, basis.

## **ARCHITECTURAL FUTUROLOGY: ORIGINS, EVOLUTION AND PERSPECTIVES**

**M.Yu. Zhuravlev**

The article deals with the phenomenon of architectural forecasting, its origins and perspectives. In addition to fantasy models, concepts and projects of architecture masters, the material of the study are the works of representatives of other arts (literature, cinema, cyber art) offering predictive models for architecture. Trying to classify architectural forecasts the author makes conclusions about possible directions of architecture development, the meaning and function of prognostics in the architectural theory.

**Keywords:** theory of architecture, architectural prediction, architectural futurology, unrealizable architecture, model of the future, time.

## **INFORMATIONAL SIGNIFICANCE OF A PLAN: PICKING UP ISSUES FOR URBAN ANALYSIS**

**I.M. Moisseev**

Regional planning and urban planning – can be consider as communication channels between the sender and receiver of information. In terms of onset environmental degradation, there is a question on how effective these communication channels are working? The behavior of systems is due largely to the information signals and pulses so as a source of information can be encoded, transmitted, received and decoded. The article drew attention to the fact that it is a feedback mechanism is important in the regulation of processes of urbanization and the development of improved management of urban systems.

**Keywords:** urban development planning, urban development analysis, urban planning theory, urban development management, planning Instruments.

## **ARCHITECTURAL RUINS IN THE MODERN WORLD**

**V.V. Fedorov V.A. Davydov A.V. Levikov**

Architectural ruins considered as an attribute of the habitat of a modern person, who possesses a movable axiological content. The emphasis on the «offset» the ruins of the architectural environment in space architect and virtual sphere. The symbol of the ruins is taken as the tool of interpretation of social reality.

**Keywords:** historical ruins, the ruins of a modern, ruins false, the ruins of the future.

## **THE DECLARATION ON THE ENVIRONMENTAL IMPACTS OF CONSTRUCTION MATERIALS: PROBLEMS AND PROSPECTS OF APPLICATION IN THE RUSSIAN FEDERATION**

**P.M. Zhuk**

Environmental Product Declarations are generally accepted mechanism for informing the market about the environmental quality of building products. This declaration may take place in the system of ecological safety of building materials in Russia. The most important areas for raising the profile of environmental labeling of construction materials market is the development of rules for evaluating the environmental impact for individual product categories, as well as mechanisms for the inclusion of information about the building materials in the rating systems for sustainable construction.

**Keywords:** environmental product declaration (EPD), rating systems for sustainable construction, life cycle assessment (LCA) of building materials, product category rules.

## **CONTEMPORARY EXPERIENCE IN RECONSTRUCTION OF INDUSTRIAL ARCHITECTURE FOR RESIDENTIAL USE IN ST.PETERSBURG AND MOSCOW**

**M.V. Nazarova**

General approaches of industrial zones gentrification are given. The contemporary experience of reconstruction for residential use in St. Petersburg and Moscow is analyzed. There are completed and underconstruction projects. Concepts of shift from industry structure to residential structure of different types are given. General options that are involved in Moscow projects are given. Reasons of unpopularity of reconstruction for residential function in St. Petersburg are given. Reasons of topical importance of gentrification for industrial areas in big cities are given such as St. Petersburg and Moscow.

**Keywords:** reconstruction, industrial architecture, loft, St. Petersburg, Moscow.

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## **FRENCH CLASSICISM IN THE WORKS OF MOSCOW ARCHITECTS AT THE AGE OF ENLIGHTENMENT TO THE 275TH ANNIVERSARY OF VASILY BAZHENOV, MATVEY KAZAKOV AND NICOLAS LEGRAND**

**Yu.G. Klimenko**

The problem of the infiltration of principles of French classicism to Russian architecture of the age of Enlightenment has been studied in depth in the case of St Petersburg. At the same time, in Moscow the most ambitious projects of Catherine the Great were carried out by V. Bazhenov, who was a pupil of J.-B. Vallin de la Mothe and Ch. de Wailly, and N. Legrand was at the head of urban planning. Even M. Kazakov, who never traveled outside Russia, shows in his designs and built works significant influence of the French school. The article examines the presence of elements of Louis XVI style in works of these architects.

**Keywords:** french Classicism, the Principles of Architectural Attribution, Embellishment of Moscow, Architectural Treatises, the Franco-Russian Architectural Links, Age of Enlightenment.

## **MULTIFUNCTION MASS AGITATION SPACE «CIRCUS-THEATER-CINEMA»**

**M.A. Karpova**

In this article considers the problems formation of the building «circus-theater-cinema» as one of the main cultural and entertainment, mass agitation centers of Soviet cities in the post-revolutionary period. For the first time, their interaction circus, theater and film in a single multifunctional complex is seen as the main political instrument of the proletariat in order to strengthen the ideological positions through architecture. On the basis of the construction project alternatives "circus-theater" in Ivanovo-Voznesensk, Sverdlovsk, Rostov-on-Don explores the main principles of the spatial construction of building structures and their subsequent impact on the evolution of theatrical entertainment facilities.

**Keywords:** circus-theater-cinema, multifunction mass agitation space, integration of circus and theater art, enlightenment –propaganda, spatial hierarchy of the city.

## **PROJECTS IDEAL CITY RENAISSANCE. PROBLEMS CREATING AN IDEAL CITY**

**K.A. Soloviev A.Yu. Yrgajtis**

Problems creating an ideal city, in spite of the current relevance, particularly pronounced in the distant epoch of the Renaissance (XIV - XVI centuries). This topic through the lens of philosophy anthropocentrism becomes the leader in the art of urban planning era. Man inspires the creative thought Возрождения to the search of unique, sometimes utopian, architectural and philosophical solutions of the problem on the formation of the city. Some of these projects were considered in the presented work.

**Keywords:** the Ideal city, the Renaissance, Renaissance, Palmanova, Sforzinda, Ferrara, Pienza, Projects of city, Architecture, Italy.

## **IN SEARCH OF THE LOST UNITY. THE WORK OF OUTSTANDING ARCHITECTS OF THE LAST CENTURY - LE CORBUSIER AND A.K. BUROVA**

**O.G. Maksimov**

Article is devoted to a brief analysis of two prominent architects of the last century, Le Corbusier and A.K.Burov, comprehensive activity which has had a significant impact on the development of practices and theories of modern architecture. The article is constructed as a mapping of a number of major works of the two masters in the design, construction and other activities. Recently widely celebrated public architectural 125 anniversary of Le Corbusier, whose work has not spared Russia. In our country it is always treated with great interest, been here repeatedly, was familiar with the vivid personalities of Russian culture. A.K.Burov thought to be his companion.

**Keywords:** architecture, urban planning, creativity, master.