Exploring Modern Urban Landscape Design under the Influence of Ecologism

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Abstract: The industrial development of modern cities and the accelerated pace of life of urban residents have had a serious impact on the global ecological environment, causing damage to varying extents. In order to protect the earth, the common home of mankind, the concept of sustainable development of ecological resources is constantly put forward, in order to better promote urban economic development and social progress. The landscape design of modern cities must consider the sustainability of ecological resources. Only under the benign ecological cycle chain can the living environment of human beings be better protected, and it is also an important premise to promote the harmonious development of man and nature.

Keywords: Urban landscape; Ecologism; Landscape design

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Advanced urban landscape design concept will bring positive and direct impact for urban economic development, and ecological landscape design concept is an inevitable trend, because the energy consumption brought by the rapid economic development is irreversible, and the earth’s renewable resources are getting less and less, and the gradual imbalance of the ecosystem makes more people start to think about the big environmental problems. Then we, as a part of nature, should make efforts to maintain the balance of the ecosystem, and this is also well reflected in the modern urban landscape design, excellent landscape design can improve the urban environment at the same time to meet the ecological requirements of nature. In order to achieve a perfect integration of urban ecological environment with the natural environment, it is necessary to meet the needs of the present generation and not to overspend the resources and environment of future generations in advance. This paper elaborates on the basic meaning, principles and main factors of modern urban ecological landscape design to provide reference for the development of modern urban landscape under the influence of ecologism.

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1. The Basic Meaning of Modern Urban Landscape Ecological Design

In this day of rapid economic development and serious pollution and destruction of the human living environment, the ecological balance of nature has been broken and endangered species of animals and plants are disappearing at an alarming rate. The reduction of biosphere diversity species has an impact on the balance and regulation of the environment and life support system. Coupled with the increasing population of urban dwellers, these objective factors have accelerated the rate of human destruction of the ecosystem. Therefore, in order to maintain the balance of the ecosystem, human beings must curb the over-exploitation and use of non-renewable resources and ensure that human survival needs and social development are predicated on respect for life and the laws of nature, so that we can achieve the goal of building an ecological civilization and improving peoples’ quality of life together. The ecological concept of urban landscape design is also a reflection of people’s adherence to the principle of sustainable development. When nature is well protected, the environment will be good, and people will be able to work and live in a better living environment and feel the beauty of life together. In the process of modern urban landscape ecological design, in addition to considering the natural material energy balance of the ecosphere, it is also necessary to consider the aesthetic needs of modern people, to create the unique ecological design card of each city, and to give full play to the benefits of urban ecological landscape.

2. Basic Principles of Urban Landscape Ecological Design

(1) The Original Natural Landscape as the Basis of Design

The original purpose of urban landscape design is to make people’s life close to nature and return to nature. Therefore, in the ecological landscape design, we should try our best to reduce the changes to the pure natural landscape and avoid the destruction of the original ecological landscape. For example, in urban recreational parks, more original stones and trees are kept, and artificial landscape design is used reasonably so that people can enjoy more of the original natural landscape of the place.

(2) Rational Use of Natural Resources, Adhere to the Concept of Sustainable Development

In the process of ecological landscape design for the city, use more renewable and easily decomposed materials to achieve the purpose of recycling, reduce environmental pollution, develop the recycling value of raw materials to the maximum extent, and reduce waste and garbage generated by production, processing and transportation. Retain the local cultural characteristics as much as possible. And in the ecological landscape design should realize that the ultimate service object of landscape design is people, to meet the needs of people’s daily life.
and the needs of sustainable urban development, to achieve people-oriented.

(3) Showing the Regional Culture

Each city has its own regional culture and geomorphological characteristics, and it is necessary to fully understand and analyze the local culture before carrying out ecological landscape design. For example, seaside cities and inland cities have obvious regional cultural differences in landscape design, such as design themes, landscape structures, road systems, vegetation growth conditions, which are different, these ecological landscape design is a good reflection of the strong cultural heritage of different cities and natural scenic features. In the use of materials, it is also best to use local materials, which can better save transportation costs and construction costs.

3. The Main Factors Included in the Ecological Design of Urban Landscape

(1) Focus on the Harmony and Unity with the Surrounding Environment

In order to express their respect for nature, the ancestors created the expression Fengshui. From ancient times, when moving the earth or building temples, we pay attention to the timing, the location and the people, in accordance with nature, following the “Way of Heaven”, although it sounds a bit superstitious, it is also a high summary and application of the ecological culture of ancient people. It is the expression of reverence for nature. The same is valid for landscape design, which should consider the characteristics of the designed landscape in line with the positioning of the city, and should be combined with the native natural landscape of the city location, not to put the cart before the horse. These original natural sceneries are the basis of urban landscape design, grasp the original natural features, integrated into the urban landscape design, as far as possible to retain the natural landscape, avoid excessive artificial transformation, so that the natural ecosphere and artificial ecosphere are complementary to each other, integration perfectly.

(2) Establishing an Ecosphere that Meets the Natural Conditions of the City

1) Plant Elements in Landscape Design

Plants in different cities have different natural growth characteristics, such as shape, color, fragrance, which present different light and dark light changes in different seasons, different climates and sunlight conditions, and these different points are gathered into different urban landscape characteristics. Therefore, plants have an important role in modern urban ecological landscape design, and need to be considered from species to configuration. Take the selection of inland urban plant species as example, different plants will be adopted in different places to play their respective roles in urban landscape design. Trees are mostly utilized in street landscaping, which are dust-resistant and low cost, and are well taken care of; shrubs are mostly used in segregation zones in highways or traffic separation zones...
between urban roads, which can well block the view and reduce car noise. In the selection of plants, we should consider the practicality, ornamental properties and maintenance costs of the species. Coordinate scientifically and complementarily so as to achieve the effect of ecological symbiosis.

2) Animal and Microbial Elements in Landscape Design

Essentially, humans are also animals in nature, interacting and developing with other junior animals and microorganisms. Animals in nature have the characteristics of biodiversity, but with the influence of industrial development, the natural living environment of wild animals and plants has changed drastically. Various changes, such as global warming, melting glaciers and decreasing land area, have made the survival of wild animals and plants difficult. In the past few hundred years, nearly 900 species of plants and animals have disappeared from the earth. According to statistics, three species go extinct per hour. This is the survival crisis of the earth’s flora and fauna, as well as the survival crisis of human beings. So we have to insist on the development and use of renewable resources and let ecologism affect all aspects of our life, including the landscape design of the city, so we have to create a good ecological environment for different animals and make efforts and changes for the balance of the ecosystem. This is in line with the design principles of ecological landscape. In addition, microorganisms are an important and indispensable consideration in ecological landscape design, and they play an important role in the balance of material cycle and energy flow. It is the material-energy converter in the soil, consuming waste and spitting out nutrients, and plants cannot grow without the help of microorganisms; but it may also be the culprit of infectious diseases. Therefore, it is necessary to design an ecological development circle suitable for microorganisms in combination with urban climate, sunshine and geographical conditions in order to promote the harmonious coexistence of urban natural landscape and human beings.

4. Conclusion

Modern urban landscape reflects the cultural heritage and spirituality of a city, and it is an important element of urban construction. The urban landscape is a visual representation of the content of urban construction, and is a unique development characteristic of each city. In the future development path of urban landscape design, ecological environment is still the most important consideration. This paper elaborates the importance of ecology to urban landscape design from the principles of urban landscape design, the main considerations and the influence and connection between each factor. The sustainable development of ecological resources is the long term development to meet the needs of human social progress. Therefore, good landscape design work should adhere to the concept of ecological design, follow the laws of ecological nature, combining geographical characteristics
and the current cultural concept of the city, to promote the sustainable development of landscape design work. Only in this way can we better promote the ecological and modernization of urban landscape design and better serve people’s lives.

**Works Cited**


