

## Original Paper

# The Analysis of Design Idea of the Plant Greening in the Planning Process of Camps

Ziren Rong<sup>1\*</sup>

<sup>1</sup> Logistics University of PAP, Tianjin, 300309, China

\* Ziren Rong, Logistics University of PAP, Tianjin, 300309, China

Received: January 26, 2017      Accepted: February 25, 2018      Online Published: February 27, 2018

doi:10.22158/se.v3n1p124

URL: <http://dx.doi.org/10.22158/se.v3n1p124>

### Abstract

*Green plants can not only improve and protect the ecological environment, but also adjust the function of people's body and mind. They can create many kinds of space people like. And they play an important role in the construction of landscape environment in the camps. With the rapid development of the planning and construction of the camps, the greening of camps is becoming more and more important. In this article the defects about the greening of camps are analyzed from the perspective of plant landscape design. And the guiding ideology and principles of greening design in the camp are determined reasonably. Some strategies of improving the greening environment in the camps are put forward to improve the quality of afforestation and the environment in the camps.*

### Keywords

*Camp, greening, planning*

## 1. Introduction

Plant greening is a good way to protect the ecological environment. More importantly, it is the most special landscape element. Reasonable greening can create the space people like and meet people's psychological need. With the acceleration of the construction of modern camps, the problem of greening in the camp is more and more important.

## 2. The Connotation of Plant Greening

Plant greening is a science as well as an art, which is fully reflected in Chinese garden art. The literati in the past dynasties wrote many vivid poems to describe garden plants. Thus it formed a kind of culture. This kind of culture can help people to have a deeper understanding of garden plant greening. Therefore, it is necessary to give scientific, organic and reasonable collocation according to the

biological characteristics of plants when planning the garden green space. Planting a variety of plant communities aims to achieve the ideal effect of greening and beautification and add luster to the overall planning.

### **3. The Role of Plant Greening**

Green makes people feel comfortable. It can regulate the nervous system, absorb the harmful ultraviolet light to the eyes, and alleviate eye fatigue. Plant greening is closely related to people's physical and mental regulation.

#### *3.1 Environmental Function*

It is well known that plants can purify air, water and soil. It can also reduce noise and improve the climate in the camps. Due to the physiological function of plants, in the summer people feel comfortable and cool under the shade of green trees. Plants evaporate a lot of water so as to adjust the humidity of surrounding air and improve the environment of camps.

#### *3.2 Engineering Function*

Plant greening can guide the flow of traffic and organize the traffic. Plant greening has shading and cooling effect. It can lower the surface temperature and reduce the temperature difference between day and night. It can also extend the service life of the road and square in the camps. At the same time underground pipelines can also be buried under flowers and grass so as to avoid damage to the roads during repairs. It can save much cost of engineering and transportation.

#### *3.3 Landscape Function*

Plants give people a good feeling through their inherent colors and gestures. If a road doesn't have the decoration with green plants, no matter how novel the buildings are at the two sides, it will appear lifeless. In addition to the consistency and change of architectural style, the continuous composition of green plants is also very important. It can not only enhance the green vision but also beautify the environment.

### **4. Current Status and Problems of Greening in the Camps**

#### *4.1 The Level of Greening Is Chaotic and It Ignore Ecological Benefits*

Today the design of visual beautification of the greening in the camps is emphasized too much to pay attention to the ecological benefits so that it cause bad ecological greening level of green space system in the camps. The real greening we need to pursue is regular and multi-level.

#### *4.2 The Green Forms Are Monotonous and Lack of Innovative Design*

At present the greening designs of certain camps are relatively unitary. There are only trees on both sides of the road and the species of trees are single which can't form a rich greening level. On the choice of tree species, the trees that are not luxuriant are chosen on both sides of the road. In the summer the whole road is under the sun. And they can't provide shade for people.

The greening of camps should run through every corner of the road and combine with the surrounding

environment. There should be a square in the center, a large area of grass, a green belt around buildings and a water body for improving the environment and regulating the climate. However, the current greening of camps has not taken the regional features into account. The greening design becomes formalized and the content is monotonous. The configuration of plants lacks gradation and the greening design lacks originality.

## **5. The Guiding Ideology and Design Principles of Green Design in the Camps**

The greening style of the camps originates from the designer's understanding of the life in the camps, which is the embodiment of the designer and people's life style. The essence of green environment facility design is to provide a comfortable place for people. Therefore, it is the fundamental principle of the greening design of the campsite to put people first and show humanistic concern. In the design, we should enhance the respect for nature, the pursuit of cultural taste and the elegant atmosphere.

## **6. The Concrete Measures of Improve Greening of Camps**

### *6.1 Arrange the Greening Space and Match the Population of Plants*

In the configuration of plants we should combine beauty with practice and create the plant landscape with multifunction as far as possible. For example, we can provide seats for the people around the flower beds. We can also grow flowers and plants beside the seats to add sweet color when people have a rest. The greening in the camps should make full use of the space. It is of great practical significance in the greening of camps.

### *6.2 Enrich the Form of Plant Greening and Improve the Greening Efficiency of the Camps*

The greening in the camps should make full use of the form of vertical greening to form the greening system of dot, line and face. We should use large, medium and small trees and combine shrubs with flowers to show the diversification and individuation of walking space. At last we can make the greening of camps more hierarchical.

### *6.3 Respect People's Psychological Needs and Pay Attention to Humanistic Care*

Human is the major element in the camps. So when making plant configuration, we should consider the perspective of people. We should meet needs of people in all aspects as far as possible so that the plants can remain for a long time with no destruction. In addition it is necessary to consider the environmental requirements of plants such as illumination, temperature, humidity, soil and so on. We should choose different varieties of plants according to different environments to ensure the survival rate of plants. On the hand of breed collocation we should fully consider the change of season. Especially in the cold areas we should carefully choose hardy varieties and maximally extend the greening stage. There should be seasonal flowers in the different season to form a continuous scene.

## 7. Conclusion

The camp is an important place for people to communicate with each other. The plant greening is the main element to make up the landscape. It has become the symbol of the modern camps. Plant greening is an important part of the environment in the camps. It has the very vital significance in improving the environmental quality, promoting the overall image of greening in the camps and reflecting the pursuit of spirit and culture. Therefore, we need to re-examine the existing problems and further improve the plant greening of the camps.

## References

- Guo, C. Y. (2016). *Handbook of garden design tree*. Beijing: China construction industry press.
- Meiyan. (2015). External environment ecological design. *Chengdu: Sichuan architectural science research*, 2015(1), 67-68.