

The Study of Outdoor Lighting and Revising Program of Chungju City in Korea

Chung, Yu Gun¹ and Shin, Dong-In²

¹Chungju National University, Chungju, Korea, ygchung@cjnu.ac.kr

²Chungju National University, Chungju, Korea, dishin@cjnu.ac.kr

ABSTRACT: Chungju city with natural environment and diverse cultural heritages recently meets the top of tourism potential because of the opening of Jungbu Naeruk Expressway. Now, the outdoor lightings come to the major issues to improve Chungju city images and to exploit new scenic spots. This paper aims to introduce the status of Chungju night views and the outdoor lighting programs on launch. The current outdoor lighting programs has the objective in undertaking mainly for the parks, and express the traditional beauty and contemporary city as well as to provide the new resting spaces for citizens..

Keywords: lighting, night views, traditional aesthetics, contemporary images

1. INTRODUCTION

Chungju city, located in the central area of Korea, is encountered with the new era of advancement by the opening of Jungbu Expressway, invitation of entrepreneur city, and others. In addition, with the rich water resource including several hot-springs, natural environments and diverse history with significant cultural heritages, the city has been developing with its tourism potential.

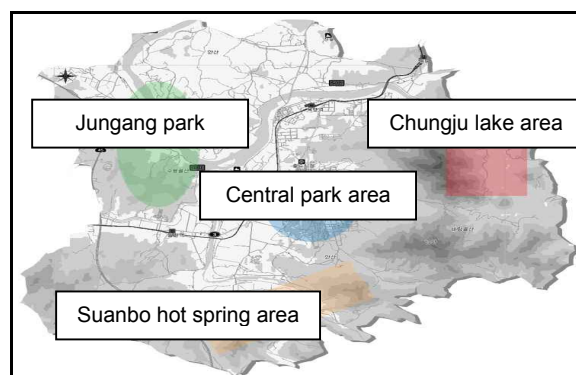
For this purpose, the city hosts various cultural festivals, including World Martial Art Competition, Ureuk Cultural Festival, Suanbo Hot Spring Festival, Chungju Apple Festival, Lake Festival and others in addition to its outdoor lighting programs for some buildings and sites, such as Gwanna Park, Culture Center and others.

Therefore, this paper aims to introduce the current status of Chungju night views for the representative tourism resources

and the new outdoor lighting plans on launch.

2. CURRENT STATUS OF CHUNGJU CITY

The tourism resources of Chungju city, integrated with Jungwon-gun in 1995, could be classified largely into the four territories as shown in (Figure 1). According to the guide book of Chungju city, there are 11 scenic points within the territory. The representative scenic points of Chungju city are shown as follow.



2.1 Multipurpose Sports Facilities

This is the integrated sports facilities adjacent to Hoam Lake Park. The facilities are consisted of Taekgyeon Training Centre, to preserve, disperse and advance our traditional martial art on Taekgeyon, the Sports Centre and the Youth Training Centre. The Youth Training Centre was established for the purpose of providing healthy youth culture with the goal in developing the potential capability and harmonious personal nature. In addition, Hoam Sports Centre with the badminton competition facilities has been undertaking the role to improve the physical fitness and cultural facilities for Chungju citizens.



Figure 2: The day and night images of Multipurpose Sports Facilities

2.2 Gwana Park

This is the place to set the government site of Chungjumok during the Joseon Dynasty, and had the Office of Jungwon-gun before, and the past Chungju District Court and District Prosecutor's Office are cleared and re-set the area and named it as Gwana Park. In the surrounding area, there are two 500-year old elm trees, and there are ancient buildings of Cheongnyeoneon (Local Cultural Property Number 66) that was used as government office in the past, and Jegeumdang (Local Cultural Property Number 67) to bring back the sentiment of old days.



Figure 3: The day and night images of Gwana Park

2.3 Tangeundae and Central Park

Tangeumdae is a low hill with the elevation of around 100m and is the place for music master of Silla Dynasty, Ureuk (around AD 536) to teach his pupils with songs, Gayareum (a traditional musical instrument) and dance. There are outdoor music hall and archery field. Adjacent to Namhangang River, it has the beautiful scenery with dense pine forest on the weird looking rocks on the cliff. Furthermore, Central Park near to Tangeumdae is a favorite waterside park for the Chungju citizens that have various water sports facilities, musical water fountain, Sculpture Park and Jungang Tower, built during Silla Dynasty.

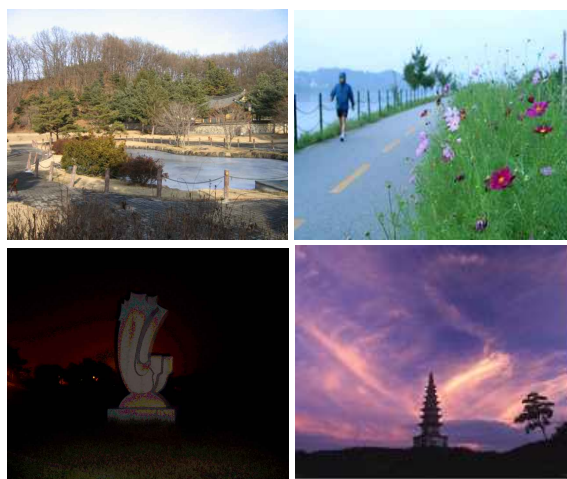


Figure 4: The day and night images of Tangeundae and Central Park

2.4 Hoam Lake Park

This is an artificial park with the circumference of approximately 4km located in the Chungju downtown, and it is linked to the multi-purpose sports facilities around that it is used as the sports and resting space of citizens and it is a favorite civic park where many citizens enjoy for boating and other activities on weekends. There are various cultural events, such as, Chungju Apple Festival, World Martial Art Festival, Chungju Culture Festival and others, and currently there are on-going scenic lighting plan.



Figure 5: The day and night images of Hoam Lake Park

3. OUTDOOR LIGHTING PLANS IN CHUNGJU

3.1 Central Tower in Central Park

Central Park has the lighting plan on the basis of the Central Tower and the Sculpture Park. The Central Tower has the cultural implication in symbolizing the center of Korea and historic implication of the tower as well as undertaking the role as the landmark. It lights on the upper part of the tower to feel the sense of elevation of the tower and improve the recognition from far away.

The hiking path constructed along Namhan River provides the resting place to enjoy the surrounding views with the lighting on the trees and paths and it is connected with the space of the Outdoor Art Exhibition. For this purpose, the

existing street light facilities are expanded and the outdoor sculpture works are installed with the lights to build up the culture space with many things to enjoy.



Figure 6: 6lighting plans and musical fountain of Central Park

3.2 Hoam Lake Park

Due to the lack of lighting facilities in the park that is as favorite site for Chungju citizens, it could be abstain from making use of the park at night. By lighting on the flower beds and rocks in the front of the park, it brightens and emphasizes the entrance of the park and hiking path.

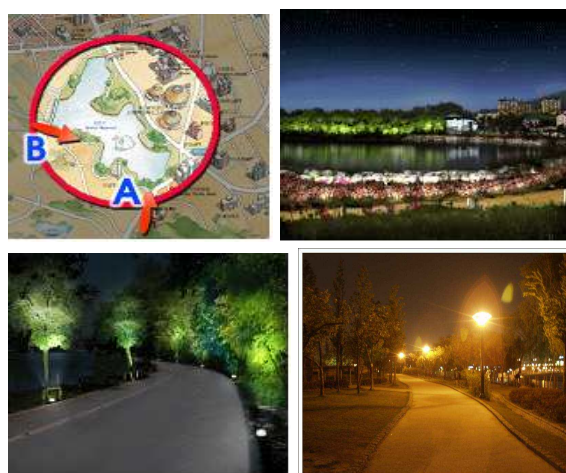


Figure 7: outdoor lighting plans of Hoam Lake Park

And, the reflected lighting images on the lake are generated by lighting from the surrounding

Multipurpose Sports Facilities and trees. Overall, the plan is set to promote the level of the outdoor night scenes through lighting around the lake. In the event of hiking path, there is a underground lighting to emerge the rich leaves of trees. The sports area in the middle of the hiking path has the mercury street lightings replaced with the metal halide lamps to promote the night sports activities.

3.3 Gwana Park and Gwana Gallery

The outdoor lighting of Changnyeoneon and Jegeumdang in Gwana park uses the current lighting fixtures on the traditional buildings to generate bright, magnificent and mysterious atmosphere to simultaneously express the traditional aesthetics and contemporary sophistication. The lighting plan uses the underground lightings to shed the light on the pillars and eaves of Changnyeoneon to emphasize the elegance of the eave lines.



Figure 11: outdoor lighting plans of Changnyeoneon, Jegeumdang and Entrance of Gwana Park

The park entry uses the luminance light to attract the visits of citizens and improve the

recognition of the entrance. For this purpose, the underground lighting is used to light on the four pillars and eaves to display the splendor of the colorful painting and emphasize the eave lines. Also, the trees surrounding the entrance are lighted to provide the sufficient brightness and energetic atmosphere.

4. CONCLUSION

This paper has introduced the outdoor lighting plans and the new scenic resources to establish the status of Chungju city as the historic and cultural tourism city. The current outdoor lighting plans have the objective in undertaking mainly for the parks, and to express the images of Chungju city for its traditional beauty and contemporary city as well as to provide the new resting spaces for its citizens. In addition to the above plans, Chungju city, as the central city in the Korea peninsula, launches the comprehensive lighting plan that is linked to city and the nearby hot spring areas (Suanbo, Angseong, and Mungang) to develop the national resort to represent Korea.

ACKNOWLEDGEMENT

The research was supported by a grant from the University Restructuring Program of Chungju National University.

REFERENCES

- [1] Chung, Yu Gun et al, Lighting Plans in Chungju City, Journal of the KIIEIE, 2007.
- [2] Oh, Seong Bo et al, Modeling and Investigation of Lighting in Jeju City, Journal of the KIIEIE, 2006.
- [3] Lighting & Interior, 1999.1 – 2005. 2.
- [4] <http://www.visitchungju.net>