

A Design Approach to Post-earthquake Community Reconstruction

She-Liao as a Case Study

Hwang, Shyh-Huei

Assistant Professor of Department of Industrial Design
National Yunlin University of Science & Technology, Yunlin, Taiwan (R.O.C)

Abstract

After the Ji-Ji earthquake at Middle-Taiwan in 1999, the community design for disaster areas has become an urgent problem and been looking for new approaches. Many areas are still looking forward to reestablishing their own hometown, but it's not easy to get together with inhabitants' common view to repair historical heritage, even a community with the experience of community design.

We have worked and researched in She-Liao, a small agricultural village near Ji-Ji town, for more than one year especially focused on the cultural landscape such as the formation of old banyan park.

For understanding the influence of work of community design at She-Liao, we take a questionnaire in 2001. From thirty-five questions that were asked to choose in five grades of Likert attitude measurement, we picked up seven factors by using factor analysis. They are "All is optimistic" "Agreeable" "Need to improve" "Care & worry" "Dependent & Passive" "Financial problem" and "Well executed".

According to the results of participant observation and questionnaire analysis, we tried to build some design approaches for the reconstruction of post-earthquake area as follows:

- 1) a good examination for community - earthquake becomes an examination of community design;
- 2) historic concern rather than heritage preservation - the lack of local history education may cause the difficulty of reconstruction of historical buildings;
- 3) cultural landscape vs. historical building - the contradictory attitude toward historical building and old banyan park shows that cultural landscapes do have the initiative potential to attract inhabitants' concern; and
- 4) participation - landscape is used to encourage participation, so built by inhabitants is essential.

Keywords

community reconstruction, cultural landscape, participant observation

A Study of User Consciousness for The Temporary Quonset In the Public Environment

Chen Ming-Shih

Tunghai University, Taiwan

Zheng Mneg-Cong

Graduate School of Tunghai University, Taiwan

Abstract

A violent earthquake took place in central Taiwan on September 21, 1999; as a result, the original central cities and villages with picturesque scenery were almost destroyed overnight. The government built temporary residential communities here and there in the disaster area according to the "construction program of temporary residence" formulated by Construction Bureau, Ministry of Interior to provide the sufferers whose houses had broken down for short-term use.

This research takes the temporary residential community of "Kaohsiung Friendship Village" in Taichung county as the example to discuss the relationship between public environment and street furniture as well as the satisfactory degree of the user, and to understand the interactive effect.

According to field survey, most residents thought that the temporary residential community belonged to transition period and consequently could endure the narrow indoor room; most considered outdoor space as public space; and they thought the street furniture set in the public space that the interactive between neighbors had positive meaning but was not enough. As a whole, they were concerned with the security and sanitary problems about the residential environment.

From the point of view of industrial design, street furniture facilities always belong to the position of minor details in city design. The investigating objective of this research is the community built on prior consideration of solving the "residence" problem of the sufferers. Since the sufferers experienced psychic and psychological hurt overnight and had to build human relations and social identification again, of course they felt painstaking. At the same time, the construction of public environment and using public street furniture facilities to lead the residents to go outside and take spontaneous communication with the neighbors should be taken important and active attitude.

Keywords

temporary Quonset, public facility, interactive