The production of the new space as the solution of outdoor space planning problem

M Siagian¹, R Sitorus¹ and F Eddy¹

¹Departement of Architecture, Faculty of Engineering, Universitas Sumatera Utara, Jl. Universitas Kampus USU Medan 20155
Email: pohontepiair@gmail.com

Abstract. The outdoor space has been an interesting part of a university. Many universities create their images by the outdoor spaces designs. As Lefebvre stated that those are called abstract space, the university commodity them. The other spaces are called as lived space, there the users live with cold and hot life and emerged the interaction between groups. Fakultas Ilmu Budaya (FIB) is one faculty in Universitas Sumatera Utara, demonstrates the dynamic outdoor spaces built by their expression needs. The spaces are not safe for they are built by themselves. Illegally, not only for their performance but also for their image. Students are performing their ideas on music and discussing their thoughts in there. The spaces are created naturally along with existing buildings which many times are destroyed by the faculty management. However, students are struggling to have. By the qualitative research method, the research is done by observing and interviewing students continuously. This paper shows how the spaces are not planning matters, but they are also people part of the expression of ideas and thoughts. The student feels happy and sad, free but fear, optimistic and pessimistic, real and unreal. New spaces as the production of students emerged for those.

1. Introduction
The campus is where students spend most of their time outside of their homes. Aside from being a campus learning venue is a container where students live socialize, interact, and express themselves. The faculty conducts formal activity in classes, laboratories, libraries, studios, halls, while informal campus activities conducted at pendopo, gazebo, hall, and garden. This formal place is not only an additional complement, but a part of educational activity. According to Deasy [1], students at all levels of education have tendencies to separate themselves in small groups to large group, and identify with specific places. The characteristic space for societal on a campus according to Deasy (1987) has the following features: (1) It is adjacent to the campus's main circulation route as it has a high level of accessibility, (2) It is mostly in crossroads, which is close to the object as their destination, even in some cases located nearby where the student service, (3) Available seating facilities, (4) There are shelter facilities, can be trees and so on.

Student admissions annually are growing, while formal and informal spaces provided by the campus encourage students to make use of unused empty spaces. In solving the limited informal spaces of students of the Fakultas Ilmu Budaya (FIB), Universitas Sumatera Utara (USU) create new spaces between buildings.
2. Method
FIB is the research object located on the campus FIB area. The research uses qualitative and research methods. Through previous research on the use of outdoor space in the campus USU, it has been done to understand the form of patterns and characteristics, activities and interaction of students in the use of outdoor space on campus. The study was conducted by collecting data through observations for two weeks in the morning, afternoon, and evening throughout the outdoor space corner of the FIB to find the number of student gathering points: by monitoring, by counting the number of user spaces and activities performed; performing a map depiction of the gathering point; and doing questions and answers.

3. Results and Discussions

3.1. Availability of Formal and Informal facilities FIB
Universitas Sumatra Utara is one of the state universities in Medan, Province of Sumatera Utara. Since its establishment in 1952, the campus is designed with a cell concept where each faculty is fragmentary. Buildings gather in designated lands. Today the university has 15 faculties, one of which is the FIB. This faculty is located on the east side of campus which directly borders the Jalan Universitas (Figure 1, point 10), flanked by the Fakultas Hukum (Point 11), University Main Library (point 16C), Gedung Pancasila (points 16B). The faculty consists of 10 majors; they are Sastra Indonesia, Sastra Melayu, Sastra Batak, Sastra Arab, Sastra Inggris, Sastra Jepang, Ilmu Sejarah, Etnomusikologi, Sastra Cina and Ilmu Perpustakaan. Based on the data reported from the university website in 2018, this faculty has 4,851 students, 178 lecturers, and 42 employees.

Figure 1. Location of the Fakultas Ilmu Budaya on the map of Universitas Sumatera Utara campus.

For informal activities, the university prepares this faculty's students the Theater O building and the Pendopo. Theater O building is a place where students and their organization can perform arts and
cultural activities (Figure 2a), while the Pendopo as an open-air gathering place in the middle of the faculty area (Figure 2b). With WiFi and electric facility, this place is quite crowded by students for gathering and working on tasks. The concrete bench is also built-in front of the administration room (Figure 2c). The faculty also provides an iron seat on some corridor lanes. But today, most they are broken (Figure 3). However, those facilities have not been able to provide daily student informal activities.

![Figure 2. Gathering space provided by the campus.](image)

![Figure 3. The condition of seating facilities.](image)

As "The Center of Excellence of Science and Culture in Indonesia Barat", the Universitas Sumatera Utara, are expected to be more expressive and progressive in demonstrating their identity. Space is one that is very important and cannot be ignored in all activities that support that purpose. Limited space and campus facilities that are subject to continuous problems must be resolved.

3.2. Student Communal Space Life
The study conducted in FIB area 2018 (Siagian) [2] found there are 21 student gathering points in the faculty area (Figure 4). 20 points are used as a gathering place every day, while 1 point as a gathering space eventually or occasionally held by students (Figure 4, point 22).
Figure 4. The existence of 22 gathering spaces at the Fakultas Ilmu Budaya.

Compared to the number of gathering spaces in other faculties, this faculty has the most number point (Table 1). This suggests that students in this faculty tend to use outdoor spaces as a place to interact, create and express themselves. We found that 2023 students use outside space to gather as the place for interaction, creation and, expression in every week 3rd rank in whole faculty areas campus.

Table 1. Number of gathering points and visitors on a weekly basis in each faculty.

| Faculty                                      | Number of Communal Space | Number of User (in a week) |
|----------------------------------------------|--------------------------|-----------------------------|
| Fakultas Kedokteran                         | 2                        | 374                         |
| Fakultas Psikologi                          | 3                        | 603                         |
| Fakultas Kesehatan Masyarakat               | 3                        | 1460                        |
| Fakultas Keperawatan                        | 1                        | 541                         |
| Fakultas Kedokteran Gigi                    | 5                        | 645                         |
| Fakultas Ilmu Komputer and Teknologi Informatika | 3                  | 571                         |
| Fakultas Teknik                             | 15                       | 2788                        |
| Fakultas Farmasi                            | 4                        | 799                         |
| Fakultas Matematika and Ilmu Pengetahuan Alaman | 15                   | 2897                        |
| Fakultas Ilmu Budaya                        | 22                       | 2023                        |
| Fakultas Hukum                              | 12                       | 1445                        |
| Fakultas Ekonomi and Bisnis                 | 7                        | 1991                        |
| Fakultas Ilmu Sosial and Ilmu Politik       | 7                        | 1532                        |
| Fakultas Kehutanan                          | 5                        | 479                         |
| Fakultas Pertanian                          | 14                       | 1080                        |

3.3. Space Creation by Students

Since this faculty which has a vision in 2020, namely "Fakultas Ilmu Budaya Universitas Sumatera Utara is developed into a center of education, research and activities of devotion to society in the field of humanitarian sciences and mastered information technology”, the students are increasingly on the campus. On the other hand the faculty is unable to meet the needs of interacting spaces for students. The outdoor space on the area is very limited. The condition raises issues for students. Students look for ways to present their gathering spaces. The emergence of new spaces by students in the land between the buildings of the faculty area becomes a phenomenon of space in the area.
Based on the observations in the field, it found 11 that forms of communal outdoor spaces emerge and used every day (Figure 5). These spaces are present in unplanned places that are on the parking lot, under shady trees and in the hallway.

![Images](a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k)

**Figure 5.** The form of communal space created by students.

Currently, the communal space is not separated from the latent function that appears in it. Rapoport (in Purwanto) [3] stated that the latent function is not only part of function that occurs later because of the "various" activities that arise even though it is usually not considered before in the planning [4].

Planning and creation of a gathering space are built in the faculty area with a free creative concept. By utilizing broken chairs, wasted boards and rocks located around the campus as well as other used materials, students build seats and desks (Figure 5 points E, F, G, I, J). The cleanliness and comfort of the space are highly guarded by students. They provide hygiene tools and conduct the activities mutual assistance periodically. Each majors of the faculty forms their new spaces. What attracts users of is not only separately according to the major, but the students of all majors can join and interact. In the research reported by Salama [5], the best outdoor space as a good meeting spot is not important anymore as they have used to go to the recreational center to meet irrespective of the walking distance they make. But, for them, art and creativity, culture, science and insight become stimulant in using the space. They still continue making new spaces as solutions. Space becomes capital and tools to keep struggling to sustain fellow student interactions.

### 3.4. Public Space as an Expression Space

Public communal spaces provide an opportunity for a group of people to gather, require some catalysts (Lang) [6]. Those are activities that attract a group of people to join and meet in it.

Especially the majors of Etnomusikologi and Sastra Jepang, they routinely conduct arts and cultural events every month. Even students of Etnomusikologi use the outside space as a stage for exercising...
and demonstrate ethnic music. The student do performance on spaces that are considered most appropriate for them. Sastra Jepang annually performs exhibitions, bazaars, and music in order to introduce Japanese culture to campus students and public. In addition there are great activities done every year as well. For example on Literacy Festival in March 2018 ago, students invited the public of Medan city to come and mingle to the FIB area to enjoy the cultural arts event (Figure 6).

![Campus Music activities](image1)
![Japanese Cultural Festival](image2)
![Literacy Festival](image3)

**Figure 6.** Activities (a) Campus Music, (b) Cultural Festival, (c) Literacy Festival as catalysts.

The event area extends to Jalan University. The road became a public space shared between campus and off-campus communities. Many kinds of art are perfomed like arts, music, dance, poetry and food bazaars. The colourful color of the hanging decoration also adds to the aesthetic value of the event decoration. The public meets the event on the street areas. Students and communities blended together.

![Students enjoy art performances on stage](image4)
![The community enjoys food bazaar](image5)
![Road closure](image6)

**Figure 7.** The atmosphere of arts and culture Festival held by Sastra Jepang students.

4. **Conclusions**
The spaces are not only as planning matters, but they are also the expression of ideas and thoughts. Limitation of space provided by campus becomes a constrain for doing their activities in campus. By creating new spaces, they can re-interact and express themselves. The new spaces created naturally along with spaces between buildings, which many times are destroyed by the faculty management. They re-present new spaces and attracting the public to mingle together as well in the Fakultas Ilmu Budaya area. In outdoor spaces, students most of the time feel happy and sad, free but fear, optimistic and pessimistic, real and unreal.
References
[1]  Deasy, CD 1987 Designing Place for People, Whitney Library of Design, New York.
[2]  Siagian, M  2018 Kajian Perencanaan dan Performa Ruang Sosial di Kampus Universitas Sumatera Utara, Medan
[3]  Purwanto, Edi 2009 Proceeding 4th International Symposium of Nusantara Urban Research Institute, 359-366
[4]  Rapoport, Amos 1982 The Meaning of Built Environment, Beverly Hills, California, Sage Publication
[5]  Salama, Ashraf 2008 International Journal Architecture Research 2, 57-77
[6]  Lang, J 1987 Creating Architectural Theory. The role of behavioral sciences in environmental Van Nostrand Reinhold Company, New York.