

## The International Space University Summer Session Program 2001

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### 1. Introduction

This paper is regarding the International Space University's 14th Summer Session Program held from July 14 to September 15, 2001, at the University of Bremen and The Center of Applied Space Technology and Microgravity (ZARM). I participated in the Summer Session Program (SSP) as a first-year student of the CRL. There were 95 participants from 29 countries, including five people from Japan.

### 2. International Space University (ISU)

The ISU, founded in 1987, is an educational organization that educates people who are interested in space-related fields. The ISU has two unique educational programs: two months of the SSP and 11 months of the Master of Space Studies (MSS), which is held at the headquarters of the ISU in Strasbourg, France. Over 1500 students have graduated from past SSPs (including this one). The alumni keep highly active in various fields of space throughout the world.



Figure 1. Drop Tower Bremen

Every year the SSP is held in a different location worldwide. The University of Bremen, where the SSP was held this year, conducts advanced space research. ZARM has a micro-gravity test facility called the Drop Tower Bremen. Due to summer vacation, the SSP was able to use various university facilities for classrooms and their headquarters. The participants stayed at a hotel near the university.

### 3. SSP schedule

We participated in the core lecture series, design projects, departmental workshops, distinguished lecture series, theme days, and many social activities, such as cultural nights, during the two months of the SSP. Table 1 shows the SSP schedule.

Table 1. SSP schedule

Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9							
O R I E N T A T I O N	Core Lecture Series			E X A M I N A T I O N  B R E A K	Theme Days		D P  P R E S E N T A T I O N S								
	Design Project				Design Project										
	Department Workshops (DW)														
	Individual or Team Assignments (IoTA)														
	Distinguished Lecture Series (DLS)				DW										
					IoTA										
					DLS										

### 4. Core lecture series

The core lecture series was the main activity in the first half of the SSP. Fifty-three lectures in given by nine departments were held. Departments from various space-related fields participated:

engineering, policy and law, business and management, and life sciences. The students were very active. The students asked the lecturers many questions during the Q&A time. A four-hour examination was given at the end of the lectures.



Figure 2. Core lecture  
(Satellite Application)

## 5. Design projects

Design projects were the main activities in the second half of the SSP. Participants cooperated to design the international space project. This SSP had two themes: “DP1 commercialization of space stations,” “DP2 microspacecraft and Europe’s environment”. I joined the DP1. Teachers, faculties, and teaching assistants helped us build the project team and research the theme. We published a 200-page final report and had a three-hour final review. The results of DP1’s research was presented at the International Aeronautical Federation Congress held from October 1 to 5, 2001, in Toulouse, France.



Figure 3. Design project group meeting

## 6. Cultural nights

Cultural nights were the social activities in which the participants from each country introduced their country. These are unique events that characterized the SSP as an “intercultural” program. Every country had a team that presented their country’s geography, nature, and culture using various pictures and music. They also served their national foods. Japan’s presentation was held on August 22 and lasted 30 minutes. We served *sushi* from a Japanese restaurant in Bremen that the participants enjoyed very much.



Figure 4. Cultural night

## 7. Conclusion

All of the participants experienced many activities during the two months of the SSP. We experienced not only the core lectures and the design project, but we also listened to the lecture on the International Space Station, visited companies from the space industry, conducted research, and gave a presentation in the departmental workshop. Also, we communicated with other participants, lecturers, and staff from various countries.

## Acknowledgement

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