

**Academic Year 2009-2010 Yuan Ze University
Department of Industrial Engineering and Management
Overseas Academic Visiting Program Report**

Professor Cheng, Professor Lin and Professor Chou in IE&M department led a group of 30 students to initiate this academic visit in Japan. During June 30 to July 4, 2010, they had visited KYUSHU University, TOTO and Mazda assembly factory proceeded a visiting journey of five days...

It is hard to gain this opportunity among lots of applicants. I was very excited about having this wonderful chance. Because this is my first time to go abroad, everything was new to me in my whole life.

I felt that Japanese people have very good talent to invent new things to apply to their daily life when I watched television. In order to improve the inconvenience in their daily life, Japanese people are doing their best and making brain storming to change their life quality.



We went to the Mazda factory. At first the narrator introduced to us the history of Mazda and the whole process of their development, progress of technique, ideas of science, and so on. Then we visited the whole fabrication factory. Because I have already taken part in visiting KUOZUI MOTORS which fabricates cars for TOYOTA, I am familiar with the total process about assembling cars. I felt very impressed about the Just-In-Time manufacturing process. At Mazda, they distributed the material to each job shop very precisely. Most important of all, in the Mazda factory, two assembly lines were doing the process at the same time. The Just-In-Time distribution control system can did their job very well. After we finished visiting the fabrication lines, we went to see the new prototype cars for the next generation. Science always comes from humanity. Many cars look like hi-tech but useless. However, after the narrator finished her job, I found out that when they designed every car, they put lots of effort on human factor.

Coming up next was the climax of this trip. Our schedule in this morning was to go to the TOTO shower factory and Kyushu University in the afternoon. Because we were senior students, we had to be the representatives of our school to introduce our school and our department. It was a very good experience for us especially for foreign students. I told myself to be confidence and never let them know that I was sweating. After thirty seconds, I felt clean and fresh.



In the TOTO factory, we saw disabled operators did their jobs very hard and responsible. Because of their inconvenience of their bodies, they must spend a lot of time to conquer the difficulty in the jobs. Especially for the CEO, he always leads his employee to do everything. He often created some small but creative things. They have regular production time and break time. When they did their works at the beginning of everyday, they would say something to cheer up their mood. They believed in each other and helped each other.

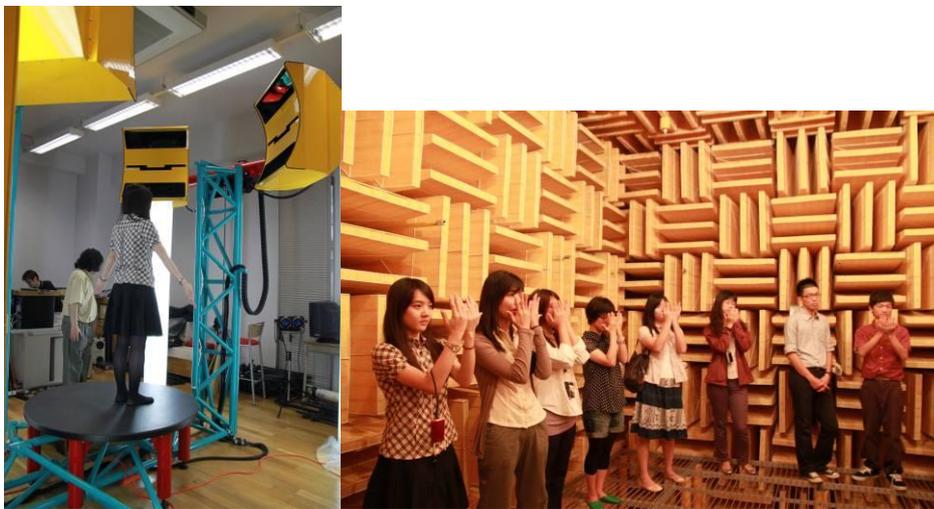


I was very surprised about the equipments in the labs of Kyushu University. We only took a look at the labs with regard to human factor. They tried their best to simulate any situation that would happen in the daily life. The graduate students even must live in the pressure room for two days in order to get real experiment data and the best result.

The most impressed of all was the 3D lab and the non-echo room. When the professor of the 3D lab started to introduce their method, I was very surprised. Because they had to built up a mathematical model to interpret our human body, from walk to run, and going upstairs and downstairs. They also use software to simulate and form an image into a computer. The lower-left hand picture was called a 3D scan machine. The girl must stand in the center. When the machine started, the scanner scanned up and down.



The other picture was in the non-echo room. Because we could not hear the echo, our ear could not hear so clearly. The voice from your mouth was like your girlfriend who breaks up with you and never comes back. Therefore, the professor told us to say something to our palm to compare the difference between these two. The voice in the non-echo room was absorbed by the wall.



When I was used to the life there, we had to go back to Taiwan. I think Taiwan is my country and Japan is my hometown.