

## Report

(1) Name of Lecturer:

Huei-Tsyr Chen

(2) Title of Lecturer:

Dynamic Soil-Structure Interaction

(3) Affiliation:

Department of Civil Engineering, National Central University, Taiwan

(4) Short Biography:

Huei-Tsyr Chen is the professor of Department of Civil Engineering, National Central University, Taiwan. He has been awarded Excellence Teaching Award from Ministry of Education, Taiwan, and from both College of Engineering and National Central University over the last years. His research interests are ground motion simulation and soil-structure interaction using numerical simulation and centrifuge. He also served as the committee member of Atomic Energy Council, Taiwan to review the seismic safety issues related to nuclear power plants in Taiwan.

(5) Subject and Schedule of the Lectures:

January 24: 12:00-14:00, 16:30-17:30

Subject: Basic Concept of Dynamic Soil-Structure Interaction.

January 25: 13:00-16:00

Subject: Direct Method of Dynamic Soil-Structure Interaction.

January 26: 13:00-15:00

Subject: Direct Method of Dynamic Soil-Structure Interaction and Substructure Method of Dynamic Soil-Structure Interaction

January 28: 12:20-14:20

Subject: Substructure Method of Dynamic Soil-Structure Interaction

In the first lecture I describe the basic concept of dynamic soil-structure interaction using a SDOF example in a hope that the students can understand when and why the soil-structure interaction is needed and how it is done.

In the second lecture and first part of third lecture I explained in detail about the direct method for the dynamic soil-structure interaction analysis. It is thought to be useful for students in constructing a realistic model for analysis in both research or work in the future.

In the second part of third lecture and final lecture, I explained in detail about the substructure method in the dynamic soil-structure interaction analysis. In this lecture, the concept of dynamic stiffness of foundation is elaborated so that the student can understand how the so-called foundation spring stiffness given in many design codes is obtained.

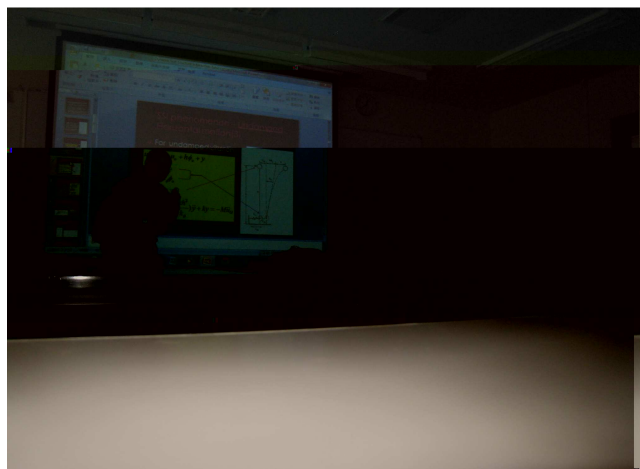
(6) Comments:

It is a very nice experience for me to teach this class to Japanese students. I found that they can comprehend my lecture quite well. In my last lecture, I asked the students to explain the homework on the blackboard to encourage them to speak; they did quite well.

Based on the previous experience, this time I decided to invite the students for dinner on January 25, the second day of the class, instead of the last day of my lecture and in that occasion the students talked a lot in English through the encouragement of Prof. Ichii and me. This fulfilled my expectation of this class: not only to deliver the specialized contents but also to stimulate the students' motivation for speaking English in the class in the remaining classes.



Group photo with Prof. Ichii and the Students



Lecturing