**Philosophy**

The Graduate School of Environmental Studies, Tohoku University is a unique institute that integrates the humanities and sciences. This is highly focused on the extraction of basic principles from big data of space and earth sciences. By applying sparse modeling to the earth sciences, we can help us understand environmental problems and environmental development with the global society. To implement education and research for the construction of an energy system that is in harmony with the environment, we should discharge our mission of research and education while promoting regional alliances and international cooperation.

The Graduate School of Environmental Studies, Tohoku University offers 2 courses: the traditional PhD course and the Master’s course. The PhD course focuses on the development of fundamental science and technology, while the Master’s course focuses on the development of fundamental science and technology.

One of the most important missions of the university is to equip its society with environmental education and awareness. The students whom we try to nurture should have expertise in basic science, possess practical leadership and a global environmental perspective. We also see the need to equip our students with the skills they need in order to achieve a future for humanity.

**Voice**

**Panel Discussion:**

**Denny H. Byens, Juan Diego Fonseca Ashton, Professor**

I have studied at the Graduate School of Environmental Studies at Tohoku University because of its interdisciplinary courses that were offered regarding the environmental issues in Japan and the world. This department welcomes students who would like to study and acquire environmental knowledge and abilities. Moreover, we are looking for students who would like to cultivate an ability to provide a direction for future science and technology.

In my career as an educator, I learned so much about the environmental issues. However, I still encounter high environmental demand that the university cannot educate to solve my and my students’ environmental problems. Therefore, I believe that it is important to provide a direction for future science and technology.

From my perspective, I think that education and research are necessary for bettering the society. We all dreamed of a 21st century full of hope, but the reality is different. I learned greatly about the environmental issues through the eyes of the students from various disciplines such as arts, science, engineering and medicine to unite and work together for the betterment of humanity.

The Graduate School of Environmental Studies offers 2 schools: the Department of Environmental Studies for Advanced Society and the Global Environmental Studies Course. The department welcomes students who would like to study and acquire environmental knowledge and abilities. Moreover, we are looking for students who would like to cultivate an ability to provide a direction for future science and technology.

Our lab will open branches for the creation of new recyclable resources and waste utilization system of materials and biotechnology that can coexist with nature. Not only should each research field work on each individual problem, but it is also necessary for researchers from various academic disciplines such as arts, science, engineering and medicine to unite and work together for the betterment of humanity.

**References:**

Aoba, 468-1, Aramaki, Aoba-ku, Sendai 980-8577, Japan

E-mail: somu@mail.kankyo.tohoku.ac.jp

URL: http://www.kankyo.tohoku.ac.jp

**Research Highlight 1:**

**Science Laboratory**

Development of Earth Science Processes based on Earth Surface Analysis using Space and Satellite Data

Through this project, we run the lifestyle design projects there and evaluate how they change their lifestyles. Moreover, we are looking for students who would like to cultivate an ability to provide a direction for future science and technology.