

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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GSU023-01

Room:301A

Time:May 22 11:45-12:00

Seminar for Culture:teaching volcanology in liberal arts education in University

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I report on the practice example in the Seminar for Culture established in Akita University. The Seminar for Culture is a colloquium for the first grade students. This seminar is one of a series of education seminar subjects

Keywords: Seminar for Culture, Volcanology, Liberal arts, education in University

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GSU023-02

Room:301A

Time:May 22 12:00-12:15

Undergraduate education for Earth and Environmental Sciences in Faculty of Science, Kumamoto University

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Undergraduate curriculum in Faculty of Science, Kumamoto University starts common basic subjects for mathematics and sciences for freshman. Then, Students select their course from mathematics, physics, chemistry, earth sciences and biology when they are promoted to the junior class. We have to provide attractive curriculum for freshman and sophomore class to be selected by students. We have also to keep educational achievement for junior and senior class.

We use English textbook used in American college for Earth science lecture in freshman class. Lectures for sophomore class are occasionally expanded since 2004. Curriculum in Earth and environmental sciences for junior and senior class consist of models for Earth Material Sciences, Earth and Environmental History and Earth and Planetary Physics. Students promote to Earth and Environmental Sciences Course increase steadily.

Keywords: Faculty of Science, Kumamoto University, Earth and Env. Sci., Undergraduate education

GSU023-03

Room:301A

Time:May 22 12:15-12:30

Teaching Introductory Seismology using Hi-net waveforms

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Hi-net has been operated by NIED for more than a decade and is one of the premier seismographic networks in the world. Major characteristics of Hi-net is the national high-frequency seismographic network major characteristic of which include that sensors are uniform in the network, that stations are distributed densely and uniformly in Japan, and that waveform data are available to public in quasi real-time. Data from Hi-net has been used to elucidate seismicity in Japan as well as to study earthquake sources and interior of the Earth. Hi-net also is a major contributor in JMA catalog and early earthquake warning system in Japan. In addition to scientific researches, waveform of Hi-net has been utilized in schools, and several proposals have been reported previously in JPGU meetings.

In this presentation we discuss our ongoing efforts to utilize Hi-net waveforms in introductory college lab courses in Earth science. Specifically, we discuss our material efforts and successes in teaching seismology in the courses in Kyoto University for science-oriented undergraduate students. Earth science is not a popular subject in high schools, and such introductory courses are designed for students with little previous experiences in the subject. Seismic waveform analysis has been one of the popular lab projects, and we have integrated use of Hi-net waveforms into wealth of lab materials we inherit to teach introductory seismology. Our ongoing effort is trying to take advantage of that waveform database of Hi-net is expanding every day,

We discuss why and what we are doing, and what could be ahead of us in teaching seismology with Hi-net.

Keywords: College Education, Earth Science Education, Seismology, Hi-net

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GSU023-04

Room:301A

Time:May 22 12:30-12:45

How to give educational service in geology course at Korean universities

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South Korea is enjoying considerable success on the world stage in recent years. It is thought that the impact of college education on its success is an important factor. I have seen how to give educational service in Korean geoscience course during my seven-years graduate life at Korean university. In this meeting, I report recent educational trends in geoscience study based on some examples from Seoul and Kangwon National universities.

Keywords: South Korea, geoscience education, Seoul National University, Kangwon National University