

Lectures by Koike

At Graduate School of Agriculture, Division of Environmental Resources, Research Group of Forest Resources, Lab. of Silviculture and Forest Ecology

Omnibus style

1) Ecology of Forest Resources

>Topics on Forest Ecophysiology

••• Physiological ecology of woody plants under changing environment for the rehabilitation of forest environment.

2) Bio-signal Chemistry

>Topics on Forest Biodiversity Conservation

••• Biological interactions and defense characteristics of woody plants under changing environment.

3) Lecture on Global Warming Effects (in English)

••• Prediction of the effect of elevated CO₂ on forest ecosystems with a FACE (Free Air CO₂ Enrichment) system and important role of field survey in Siberia, Russia

4) Advanced Bio-signal Chemistry (in English)

••• Oak wilt disease and nitrogen stresses affecting symbiosis

At Department of Forest Science

1) Silviculture

••• Woody resources production and forest conservation biology under changing environment

2) Forest Protection

••• Plant-insect interactions, Forest Pathology, Stress Physiology for forest ecosystem conservation

Omnibus style

1) Forest Aesthetics

••• A brief history of Forest Aesthetics in Japan, Forest Landscape Management based on Forest ecophysiology. Together with Prof. F. Nakamura (Landscape Ecology) and Dr. Y. Akibayashi (Forest management)

2) Forest Ecology (by Dr. M. Shibuya)

••• Forest regeneration and forest rehabilitation practices with special references to fir and spruce.

3) Forest Function and Environment (by Prof. K. Sasa)

...Responses of woody plants to the progress in global warming and nitrogen deposition

4) Environmental Chemistry (by Dr. Y. Kojima)

••• Topics on Acid rain, Nitrogen saturation, Ozone stress with elevated CO₂

At Liberal Arts

1) Introduction to Bio-field Science

••• Forest environmental science carried out in university forests and international cooperative studies

2) English training course (in English)

••• English training course on "Introduction to forest science"

For International students course (HUSTEP) (in English)

1) Environmental Science for Biological Resources

••• Biological interactions in a forest ecosystem under changing environment

2) An Introduction to Bio-Field Science

••• Forest ecological studies in the experimental forests of Hokkaido University