

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** (in English)
 - >Topics on Forest Ecophysiology
 - Physiological ecology of woody plants under changing environment for the rehabilitation of forest environment.
- 2) **Forest Resources Science**
 - >Topics on Forest Resources including Forest Aesthetics
 - Brief history of Japanese Forest under changing environment and related fields..
- 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, Free-air O₃ fumigation and important role of field survey in Siberia, Russia
- 4) **Advanced Bio-signal Chemistry** (in English) former lectures
 - 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)
- 2) **Environmental Chemistry** (by Prof. Y. Uraki)
 - Topics on Acid rain, Nitrogen saturation, Ozone stress with elevated CO₂
- 3) **Forest Ecology** (by Dr. M. Shibuya)
 - Forest regeneration and forest rehabilitation practices with special references to fir and spruce.
- 4) **Forest Function and Environment** (by Prof. F. Satoh)
 - ...Responses of woody plants to the progress in global warming and nitrogen deposition

At Liberal Arts and International course students

- 1) **Introduction of Forest Science** (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) **Plant Physiological Ecology** (in English)
 - Mainly on photosynthesis of woody plants