

Environmental Sciences in Japan
Environmental Issues in Lake Biwa and Asia
(2006 Schedule)

< Lecture >

June 8 (Thursday) 13:10-17:10

Lecture 1 Introductory Remarks of the ESJ Course

Prof. Keiichi Ohta

Lecture 2 Pollution History in Japan

Organic and inorganic pollutants are transported from land to coastal areas where they buried in chronological order. A pollution history reconstructed from the profiles of pollutants in bay sediments will be discussed together with factors governing the pollution levels in Japan.

June 22 (Thursday) 13:10-17:10

Prof. Takuya

Takahashi

Lecture 3 Forests and Mountain Villages---Human Ecology and Policy Challenges---

Forests and mountain villages in Japan underwent enormous ecological and economic changes in the last century, a period of Japan's rapid modernization. Today's challenges facing forest policymakers in Japan will be explained and analyzed.

June 29 (Thursday) 13:10-17:10

Prof. Shinji Ide

Lecture 4 Introduction to Lake Biwa and Lessons Learned from its Management

This lecture is to overview Lake Biwa's political and socio-economic features on development and conservation, its past and current conditions, history of degradation, and management environment.

July 6 (Thursday) 13:10-17:10

Prof. Syuichi

Murakami

Lecture 5 Landscape with water and people

The lecture focuses on the variety of landscapes emerging from people's relationships to water in their lives. It introduces both the fact that rich landscape of lakeshores and canals in the Biwa Lake region have been lost, and the cases in which communities try to recover them.

July 20 (Thursday) 13:10-17:10

Prof. Masahiro

Maruo

Lecture 6 Water quality in Lake Biwa.

Lake Biwa, which supplies drinking water to 14,000,000 people, has been suffering from pollution and eutrophication caused by increasing human activities. The lecture focuses on chemical features and problems of water quality in Lake Biwa.

June 27 (Thursday) 13:10-17:10

Prof. Shozo

Sugiura

Lecture 7 Fishery Resource Management in Lake Biwa

Fish resources of Lake Biwa and its tributaries have been deteriorating in recent decades due to complex environmental problems. This course explores the current issues of fisheries in this region, with particular emphases on aquaculture and resource enhancement.

< Field Trip >

Field trip I, June 28: Lake Biwa Museum, International Lake Environmental Committee
Dr. Mark Greiger and Tom Ballatore give a guided tour respectively.

Arranged by Mizuki Kitamura

Field trip II, July 4: Citizens' movement to preserve river water in Nagahama

Arranged by Prof. Murakami

Field trip III, July 12: Forest and Japanese style of management

Arranged by Prof. Takahashi

< Internship >

Two weeks from July 18 (Tuesday) – 28 (Friday): 60 hours

Research Topics in 2006

- Heat distribution and Lake breeze in the Hikone Region
- Removal Efficiency of Particulate Pollutions from Atmosphere by tree Species
- Biodiesel in the Power and Energy Laboratory
- Herbicide effects on fry