

## ANNOUNCEMENT

### INTERNATIONAL SPRING SCHOOL ON ENVIRONMENTAL STUDIES

#### **The Wild & Wise Collaborative Learning Programs Graduate School of Global Environmental Studies, Kyoto University For Kyoto University Students**

The “Top Global University Project” of Kyoto University invites graduate students to join a short-term international exchange program for studying at the Graduate School of Global Environmental Studies (GSGES), Kyoto University. The selected students will join the “International Spring School on Environmental Studies 2017 Program” with graduate students from various countries in the world.

Number of students to be accepted: 5 (five for full participation)  
10 (ten for partial participation)

Qualification: Graduate students who are belonging Kyoto University with a full-time or part-time graduate (master’s or doctoral) program able to get a recommendation letter from each academic supervisor, and will continue the program after completing the International Spring School on Environmental Studies.

Participation style: Applicant must select the style of participation in this program.  
1) Full participation (5): Participating whole program except laboratory visit on 2nd and 3rd March 2017. Applicants apply for full participation required discussion skill in English with other participants in Environmental topics.  
2) Partial participation (10): Participating orientation, full-series of special lecture, Kyoto city tour, student exchange program, final seminar, and supporting short-term international students attending this program during their stay.

Duration of stay in Kyoto: 22 February – 16 March, 2017

What this program offers: The opportunity to join an exclusive program which includes special lectures, field study courses. The detailed contents of the program are given on pages 3 and 4.

Fields of study: Environmental engineering, marine ecology, atmospheric chemistry, agronomy and soil science, and other themes in environmental studies

Financial Support: - Transportation cost for field trip and study tour  
- Support of 5,000 yen per day during the field trip  
(not full coverage of lodging expenses in some cases)

Accommodation in field trip: Hotel, guest house and lodging facilities of Kyoto University

Expenses incurred by individual participants:

- Expenses for daily meals
- Remaining lodging expenses

Selection schedule & method: By application documents and interview.

**1st December: Open the application**

**27<sup>th</sup> December: Deadline of submission of application**

**Beg. of January: Notification of screening result, and announcement of interview schedule**

**Mid. of January: Interview**

**Mid.-End of January: Notification of interview result**

**End of January: Submission of original documents and confirmation letter, Final notification**

- Documents for application:
1. Application form
  2. Latest academic transcripts (graduate or undergraduate courses)
  3. CV
  4. Recommendation letter from your current academic supervisor
  5. Certification of your current student status
  6. English language test score (if any)

Application through the web site must be completed **by 27 December**. For applicants who pass the documentation screening and interview examination all original documents for items 2-6 must be submitted by registered airmail or EMS/DHL/FEDEX by 27 December 2016. If you are international student, we will request submission of passport copies at the same time.

Postal address for original document submission: GSGES Spring School Program

Graduate School of Global Environmental Studies, Kyoto University

Yoshida-honmachi, Sakyo-ku, Kyoto, 606-8501 Japan.

Tel: +81-75-753-9167

E-mail: [okamoto.yuki.4x@kyoto-u.ac.jp](mailto:okamoto.yuki.4x@kyoto-u.ac.jp)

We encourage students with high academic capability and interests in international academic exchange to apply for the scholarship.

November 30<sup>th</sup>, 2016

**Prof. Shinya Funakawa**

Dean, Graduate School of Global Environmental Studies, Kyoto University

## International Spring School on Environmental Studies 2017

### Schedule in 2017

- 22<sup>nd</sup> February (Wed), Arrival of short-term international students
- 23<sup>rd</sup> February (Thu), Orientation, Special Lecture Series on Globalization, Energy, Urban and Rural Area and Sustainable Society in Environmental Studies, dinner seminar
- 24<sup>th</sup> February (Fri.) Special Lecture Series on Globalization, Energy, Urban and Rural Area and Sustainable Society in Environmental Studies, Kyoto city tour
- 25<sup>th</sup> February (Sat.) – 27<sup>th</sup> (Mon.) Field study tour of Kyoto and environs <sup>\*1</sup>  
(Garbage disposal plant, Local natural water usage system around Lake Biwa, Lake Biwa Museum, Sewage treatment facilities, Local confectionary company)
- 28<sup>th</sup> February (Tue.) Day off
- 1<sup>st</sup> March (Wed.) Field observation and experiments in atmospheric chemistry in Kansai region <sup>\*2</sup>
- 2<sup>nd</sup> March (Thu.) Laboratory visit 1 (Visiting lab. at GSGES for short-term international students)
- 3<sup>rd</sup> March (Fri.) Laboratory visit 2 (Visiting lab. at GSGES for short-term international students)
- 4<sup>th</sup> March (Sat.) Student exchange program arranged by Kyoto University students
- 5<sup>th</sup> March (Sun.) Day off
- 6<sup>th</sup> March (Mon.) -7<sup>th</sup> (Tue.) Field study in Satoyama (Miyazu, Kamiseya) <sup>\*4</sup>
- 8<sup>th</sup> March (Wed.) - 9<sup>th</sup> (Thu.) Field study on Marine Ecosystem, and Energy <sup>\*5, \*6</sup>  
(Maizuru Fisheries Research Station, Fukui Nuclear Power Center)
- 10<sup>th</sup> March (Fri.)-12<sup>th</sup> (Sun.) Field study on Soil and Forest in Wakayama <sup>\*7</sup>
- 13<sup>th</sup> March (Mon.) Day off (preparation for final seminar)
- 14<sup>th</sup> March (Tue.) Preparation for final seminar
- 15<sup>th</sup> March (Wed.) Final Seminar and discussion
- 16<sup>th</sup> March (Thu.) Departure for

### Contents

#### 1. Special Lecture Series on Globalization, Energy, Urban and Rural Area and Sustainable Society in Environmental Studies (23<sup>rd</sup> -24<sup>th</sup> February) (\*Tentative)

In special lecture series, lecturers from GSGES give you some talks about Globalization, Energy, Urban and Rural Areas (Agriculture), and Sustainable Society. In addition, we will invite a special lecturer, Dr. Shizuho Miki (National Research Institute of Fisheries Science) give a talk on “Radioactive Contamination in the Sea and Fishes -A perspective in Energy-” refers to long term monitoring and experiences on cesium survey and case of Fukushima accident.

#### 2. Field study tour of Kyoto and environs (25<sup>th</sup> – 27<sup>nd</sup> February)

A three-day tour course will take us around Lake Biwa, the largest lake in Japan, to investigate people's lives and environment. First, we will visit a Garbage disposal plant in Kyoto city to learn about current trends in waste management in Japan. Later, we will move to Shiga prefecture and visit a lakeside district named Harie to learn about the natural water utilization system in the local community (active

eco-tourism). the next day we will visit the Lake Biwa Museum to learn about natural history, people's lives and environmental conservation measures to rehabilitate the lake, which was once threatened by eutrophication. We will then visit a wastewater treatment plant to learn about state-of-the-art technology for wastewater treatment. On the third day, we will visit a famous confectionary factory that has been active in environmental conservation and rural development.

### **3. Gain expertise about the Atmosphere (1 March)**

We will provide a special course on atmospheric chemistry that includes:

- 1) Air pollution studies
  - Kinetic study for NO<sub>x</sub> and ozone reaction
  - Field observation of air quality in Kyoto
- 2) Aerosol formation experiments
  - Secondary organic aerosols from ozonolysis
  - Aerosols from plant emissions

### **4. Satoyama field study (6 – 7 March)**

“Satoyama” is a Japanese term referring to the area comprising hilly terrain and arable flat land. Literally, sato (里) means arable and livable land or home land, and yama (山) means hill or mountain. The Satoyama landscape has evolved through centuries of small scale agricultural and forestry use supporting local people's lives and preserving biodiversity. We will visit an example of Satoyama in the winter, and learn about the landscape, culture, society, and current issues in rural society.

### **5. Marine environment in the Sea of Japan (8 - 9 March)**

The Maizuru Fisheries Research Station (MFRS) of Kyoto University is located in northern Kyoto Prefecture on the shore of the Sea of Japan. The research station is well situated for education and research on (1) the life history and ecology of fishes, invertebrates and algae, (2) coastal oceanography, (3) systematics of marine fishes, (4) the terrestrial impacts on the productivity and biodiversity in rivers and coastal waters.

The course at the Maizuru Fisheries Research Station will cover theories and practical methods to enhance the knowledge of the marine environment and biodiversity in the Sea of Japan, including:

- 1) Evaluation of marine environment *via* conductivity, salinity, temperature, chlorophyll, and depth data;
- 2) Collection of benthos and fishes with a beam trawl;
- 3) Identification of species by means of molecular genetic techniques

### **6. Think about energy in our society (9 March, afternoon)**

We will visit the Atomic Energy Science Museum at the Fukui Nuclear Power Center in Fukui prefecture to learn about operation of nuclear power plants and accidents at nuclear power plants.

### **7. Field Studies on Soils and Forests in Wakayama (10-12 March)**

In this course, we will give lectures on soils supporting agricultural and natural ecosystems in Japan, especially mountains.

**Assignment after the acceptance for applicants who select full participation**

Through this program, we would like to learn, discuss, and think deeply about “Globalization”, “Energy”, “Urban and Rural Areas”, and “Sustainable Society” together with all participants through the field studies in Japan. Students from Universities in Europe, University in U. S. A., and Japanese and international students in Kyoto University may join this program.

We kindly request you to collect some information related to the keywords above in your country/home town in advance to promote productive discussions with other members. In addition, please kindly prepare a short presentation to explain about your current/former studies to show at the Dinner Seminar on 23 February. The academic backgrounds of the participants are wide-ranging, so please try to prepare an audience-friendly presentation.

**Notice**

There may be some subsequent schedule and content changes. We apologize for any inconvenience. We will inform you immediately of major changes.