

2019S Semester 2019. 03. 27

Contemporary Environmental Issues :

Field Work of Tsurumi-River Watershed Management

(PEAK Environmental Sciences Program)

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Outlines

This course is designed to give students an opportunity to be exposed to the efforts to address environmental issues in the field. These efforts can come in many different forms. Some are based on citizens' activities, and others are led by governments or business communities. Cooperation among these sectors plays an increasingly important role. This course stresses understanding of the present conditions and practical issues facing these efforts on the ground.

This course consists of a lecture and half-day field trips three times for the purpose of surveying the specific efforts towards solutions to environmental issues.

Lecture

History and State of Environmental Organization in Japan

This program offers field trips which you will observe one of the best environmental management practice in Japan run by public and private organizations. Before the field trips of this program, we will discuss about brief history of Japanese environmental organizations comparing with the origin of environmental organizations in the United States of America. Also, we will discuss about information about overall situation and statistics of Japanese environmental organizations.

Field trips

Field trips include lectures, observations, interviews, discussions and so on. On the day of each field trip we will start with a lecture on the topics in a field station and then visit some places related to the topics and finally come back to the station and have wrap-up meeting. **Students who want to take this course have to participate at least in two days**. If you join one field trip only, you are not entitled to get credit for this course.

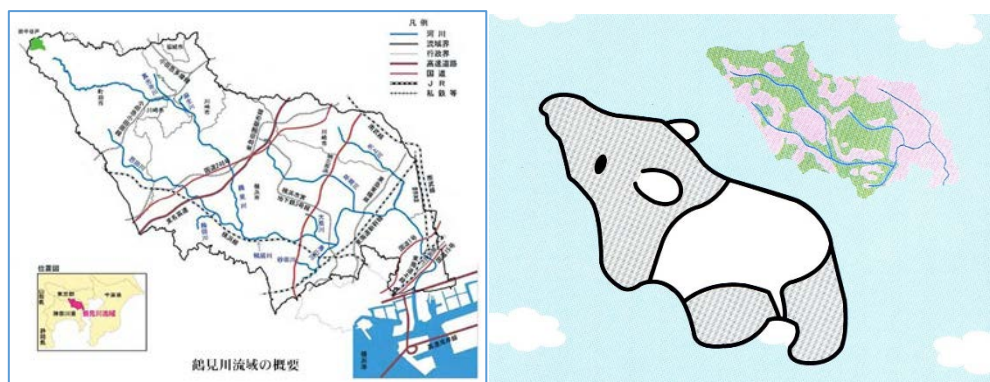
- We will start and finish the field trip at the nearest railway station to the field.
- **Participants are responsible for all expenses related to the field trips** including payment for chartered bus if we use it as a means of transportation on site.
- **Field trip** is organized in connection with the activities promoting environmental conservation and environmental education in the watershed area of Tsurumi River, Kanagawa Prefecture, through the collaboration between public and citizen sectors.

Purpose of this fieldwork

To resolve environmental issues, civil movements or NPOs have a very important roll. The aim of this class is deep comprehension of civil movement's roll through filed work of Tsurumi River Basin Networking (TR-Net; <http://www.tr-net.gr.jp/>). This fieldwork focuses on how civil movement and environmental conservation are connected, such as flood control and forest protection around headwater, and learn about history of TR-net. TR-Net is a non-profit organization, which connect people in this watershed area, local government of Tokyo and Kanagawa, and national government.

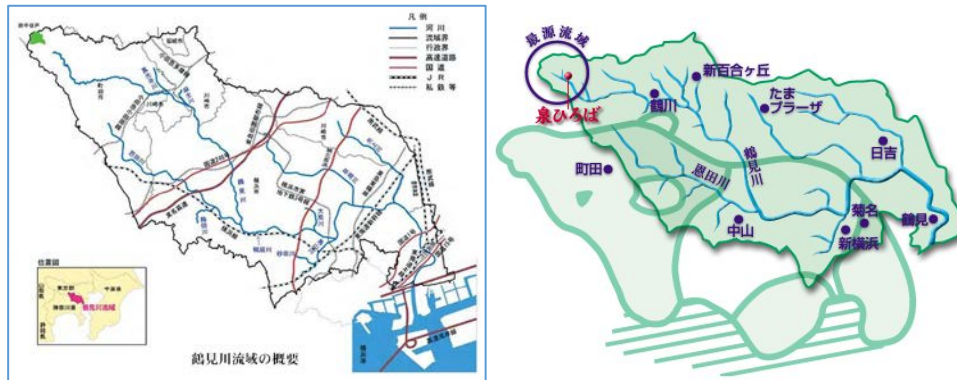
About Tsurumi River

The Tsurumi River is flowing Tokyo Metropolis and Kanagawa Prefecture for 42.5km. The watershed is about 235 km². The watershed of this river is called as “Watershed of Tapir” since the watershed map shaped the form of animal Tapir. The population in the watershed is about 1.88 millions. The Tsurumi River was feared as rampage river to repeat flooding from ancient times. By urbanization of the watershed area, water retention and penetration function had been reduced, and major flood risk became higher because an increase in water level was intensified in case of heavy rain.



About the forest of Tsurumi River head and Genryu-Net

There is *Genryu Hosui no Mori* (water-retaining forest) surrounding head stream of Turumi River in Tokyo Metropolis. A Non-Profit Organization called as Genryu-Net (Genryu means head stream) cooperates with Machida city government to conserve the forest with rich biodiversity as large as 970ha.



The forest for water retention needs to be maintained the grove of miscellaneous trees. The forest was traditionally maintained by famers nearby, but the decline of agricultural activities someone such as people of the Genryu-Net have to perform variety of works such as cutting down bamboo trees, clearing the undergrowth, and waterway maintenance, to keep the ability of water retention and biodiversity in the forest. The maintenance of walking paths through the forest is also important role of the Genryu-Net, and the member of the net offers varieties of environmental education programs for visitors.

Reports

As described in the syllabus, the evaluation will be made through (1) active participation in fieldwork and (2) written report.

■ **Students have to submit a written report.**

■ You may choose any topic related to the topics of this course and discuss it based on what you learned and what you thought through the field trip.

Length of report: approximately 3 to 5 pages

Deadline of report submission: about 10 days after the second field trip (It depends on the actual date of the second field trip.)

You must send your report by e-mail in an attached file to Prof. Morishita.

Guidance and Lecture

Date: **May16 (Thursday) 2019, 16:55-17:55**

Place: Building #14-308

Lecturer: Prof. Morishita

Field Trip 1

Date: **June 1 (Sat.), 2019**

Destination: Tsurumi River Disaster Prevention Center and its surroundings

Lecturer: Yuji KISHI



地域防災施設 鶴見川流域センター

Tsurumi River Disaster Prevention Center

Schedule

12:45: Meet at the North exit of Kozukue (小机) Station (JR Yokohama line)

13:00-14:30: Lecture by Dr. Yuji Kishi (Prof. Emeritus of Keio University) at Tsurumi River Disaster Prevention Center (TR Center)

14:30-15:30: Anti-flood pond visit from rooftop and TR Center tour

15:30-16:30: Nissan Stadium tour and embankment walk

16:30-17:00: Overall discussion

Field Trip 2

Date: **June 15 (Sat.), 2019**

Destination: secret?!

Lecturer: Masashi DAUMAE

Schedule

12:30: Meet at the South exit of Tsurukawa (鶴川) Station

13:00-15:00: activities

15:00-16:00: discussion

Field Trip 3

Date: **June 22 (Sat.), 2019 (June 29 (Sat.), 2018** when it rains on June 22)

Destination: *Genryu Hosui no Mori* (water-retaining forest, <http://www.genryu-net.jp/>)

Nearest station: Machida Station (Odakyu Line)

Lecturer: Mikirou FUKAMI

Schedule

12:30: Meet at the West exit of Machida (町田) Station (Odakyu line; not JR)

12:57-13:33pm: Bus to Oyamada (小山田) bus stop (last stop). (Bus stop No.12.)

(When you miss the above bus, you wait the next bus about an hour.)

13:33-15:30pm: Forest tour

15:30-15:58pm: Overall discussion

15:58-16:35pm: Bus to Machida bus center.