Environmental Research Summer School, 
Noto Peninsula, Japan 
Institute of Nature and Environmental Technology, 
Kanazawa University 

Date: 1-8 July, 2019 
Venue: Research sites of the Institute of Nature and Environmental Technology, 
Kanazawa University, Japan 
Supported by Sakura Science Program “Learning the Integrated Research 
Strategy in Satoyama-Satoumi area, Circum-Japan Sea region”
Environmental Research Summer School, Noto Peninsula, Japan
Institute of Nature and Environmental Technology, Kanazawa University

**Date**: 1–8 July, 2019

**Venue**: Research sites of the Institute of Nature and Environmental Technology (INET), Kanazawa University, Japan

**Outline of summer school schedule**

Day 1 (1st July)  
Introduction for the summer school  
Travel from Kanazawa to the Marine Research Laboratory of INET  
Summer school orientation

Day 2 (2nd July)  
Marine research activity 1: Physical and chemical oceanography

Day 3 (3rd July)  
Marine research activity 2: Marine biology

Day 4 (4th July)  
(AM) Sustainable development/social science activity:  
Introduction to the Meister program  
(PM) Atmospheric research lecture

Day 5 (5th July)  
Vegetation survey activity  
Return to Kanazawa

Day 6 (6th July)  
Japanese culture experience at Kenroku-en

Day 7 (7th July)  
(AM) Inland water environment lecture  
(PM) Radioactivity research lecture

Day 8 (8th July)  
Student presentation  
Closing ceremony

![Study sites visited during the summer school](image)
**Staff**: Kanazawa University

Professors: Seiya Nagao, Nobuo Suzuki and Noriko Hasebe  
Associate Professors: Eiichiro Kinoshita, Atsushi Matsuki, Keisuke Fukushima and Koji Ito  
Assistant Professors: Toshio Sekiguchi, Shinya Ochiai, Tetsuya Matsunaka, Kenji Kitamura and Masato Honda  
Lecture: Hisanori Iwai and Daisuke Utsunomiya

National University of Mongolia

Professor: Ochir Altansukh

Yale-NUS College

Assistant Professor: Eunice Jingmei Tan

**Schedule**

30th June (Sun)  
Arrival at Komatsu airport and dinner. Move to Kanazawa. Our staff will meet you at the airport.

1st July (Mon)  
8:30 Introduction for the summer school at Kanazawa university, Kakuma  
9:00 Departure from Kakuma and shopping for our own cooking during the summer school  
10:00-11:00 Small Lecture by Dr. Hasebe on geography and geology of Noto peninsula while traveling  
12:00-13:00 Lunch Break at Anamizu  
14:00 Arrive at the Noto Marine Laboratory  
14:30-16:00 Orientation for the Summer school  
16:00-17:00 Short presentation for introduction of research by students  
18:00-20:00 Welcome party

2nd July (Tue)  
7:30-8:30 Breakfast  
9:00-11:30 Lecture for marine observation (observation of physicochemical parameter and water sampling using the research ship)  
12:00-13:00 Lunch break  
13:00-17:00 Lecture for chemical experiment (measurement of Si and 222Rn in seawater, vertical cross-section analysis of physicochemical parameter in seawater)  
18:00-19:00 Dinner  
20:00-20:30 Small lecture for environmental science by Dr. Tan
3rd July (Wed)

7:30-8:30 Breakfast
9:00-12:00 Experiment of the influence of polycyclic aromatic hydrocarbon on sea urchin embryos
12:00-13:00 Lunch break
13:10 Departure from the Noto Marine Laboratory
13:20 Arrive at the Noto Marine Center
13:20-15:30 Collection of marine animals (and Sea weed lecture) in the Noto Marine Center
15:30 Departure the Noto Marine Center
15:40 Arrive at the Noto Marine Laboratory (move the collected animals to an aquarium of Marine Laboratory)
16:00-18:00 Classification of the marine animals
18:00-19:00 Dinner
20:00-20:30 Small lecture for polycyclic aromatic hydrocarbon by Dr. Suzuki

4th July (Thu)

7:00-8:00 Breakfast
8:30 Departure from the Noto Marine Laboratory
9:15 Arrive at Noto School
9:30-10:30 Excursion to Rice paddy field
10:45-12:15 Lecture (Noto Satoyama Satoumi SDGs Meister Program)
12:30-13:30 Lunch break
13:30-14:15 Lecture (Introduction to atmospheric observation: Principles of measurements and operation)
14:30-15:30 Tour around the atmospheric monitoring facility (Noto Ground-based Research Observatory: NOTOGRO) in Noto School
15:30 Departure from Noto School
16:00-16:30 Photo shooting at Mitsukejima island
17:00 Arrive at the Noto Marine Laboratory
18:00-19:00 Dinner
20:00-21:00 Outdoor education: survey creatures of the night around Marine Laboratory
5th/July (Fri)

7:00-8:00 Breakfast
8:00-9:00 Outdoor education: survey of light intensity around Marine Laboratory (day time)
9:30 Departure from the Noto Marine Laboratory
10:00-11:45 Vegetation Survey
11:45 Departure from Noto Vegetation survey field
12:30-13:30 Lunch (Noto Syokusai Ichiba in Nanao City)
15:00 Arrive at Hotel (Kanazawa city, near Kenroku-en)
Afternoon Dinner at your own choice

6th/July (Sat)

Morning Breakfast at the hotel
9:30 Meet the hotel and walk to the Kenroku-en garden.
11:00-12:30 Experience traditional artcraft (e.g., gold-leaf craft, Japanese sweet making) at Kenroku-en and around area
12:30 Lunch at your own choice
Afternoon Free time in the evening, dinner at your own choice.

7th/July (Sun)

Morning Breakfast at the hotel
8:30 Departure from Hotel
9:30 Arrive at Low Level Radioactivity Laboratory (LLRL)
9:45-10:30 Radioactivity research lecture at LLRL
10:40 Departure from LLRL
11:00-11:50 Inland water environment lecture at Kibagata
11:50 Departure from Kibagata
12:15-13:30 Lunch break
14:00-15:00 Arrive at Ogoya Underground Laboratory (OUL)
15:00 Departure from OUL to hotel
Afternoon Dinner at your own choice
8th July (Mon)

Morning
8:30   Departure from Hotel
9:00   Arrive at Kanazawa University, Kakuma
9:30-12:00   Student presentation: Summary of research activities by students (group)
12:10-13:30  Lunch Party
14:00-14:30  Courtesy visit with president or director of Kanazawa University
15:00-16:00  Closing ceremony
16:30   Departure from Kakuma campus to Hotel
Afternoon
   Dinner at your own choice

9th July (Tue)

Departure from Kanazawa

(To Singapore) Take the airport bus from Kanazawa Station departing at 13:15 (Mind time may be changed)

(To Mongolia) Take the bullet train (Shinkansen) from Kanazawa Station departing at 8:48.

Management office
Director’s office, The Institute of Nature and Environmental Technology, Kanazawa University
Kakuma-machi, Kanazawa-shi, Ishikawa, Japan 920-1192
Tel: +81-76-234-6961, e-mail: kannihon-jimu@ml.kanazawa-u.ac.jp