



TOHOKU
UNIVERSITY

The 12th International Symposium on Water Environment Systems ---with Perspective of Global Safety

**Department of Civil and Environmental Engineering
Graduate School of Engineering
Tohoku University**



GP-RSS

International Joint Graduate Program in Resilience and Safety Studies



SyDE

WISE Program for
Sustainability in the
Dynamic Earth

変動地球共生学卓越大学院プログラム

Sponsors



**International Joint Graduate Program in
Resilience and Safety Studies of Tohoku University**
<http://gp-rss.tohoku.ac.jp/>



**WISE Program for Sustainability in the Dynamic
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<https://syde.tohoku.ac.jp/>



**Department of Civil and Environmental
Engineering, Graduate School of Engineering,
Tohoku University**
<http://www.eng.tohoku.ac.jp/>

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Important Dates

30 Sep (MON)	Submission of Title
16 Oct (WED)	Submission of Abstract

Please insert **[WES2024_name]** in the mail title when you submit materials (both WORD and PDF files) to secretariats.

Oral presentation: Lecture ×10 min + Q&A ×5 min
Poster presentation: Portrait × A0 size
(All are on-site. Details will be informed in November)

Schedule

21 Nov (THU)

9:00~17:00	Fieldwork <i>Topic: Sen-en purification center and JNEX bioplant</i>
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22 Nov (FRI)

9:00~10:00	Plenary Speech
10:00~12:00	Oral session I
13:00~14:30	Poster session
14:30~17:30	Oral session II
18:00~19:30	Networking Dinner

23 Nov (SAT)

10:00~17:00	Technical Workshop
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Past proceedings:

<http://kaigan.civil.tohoku.ac.jp/HEST/GSsympo/GSsympo.html>

Fieldwork

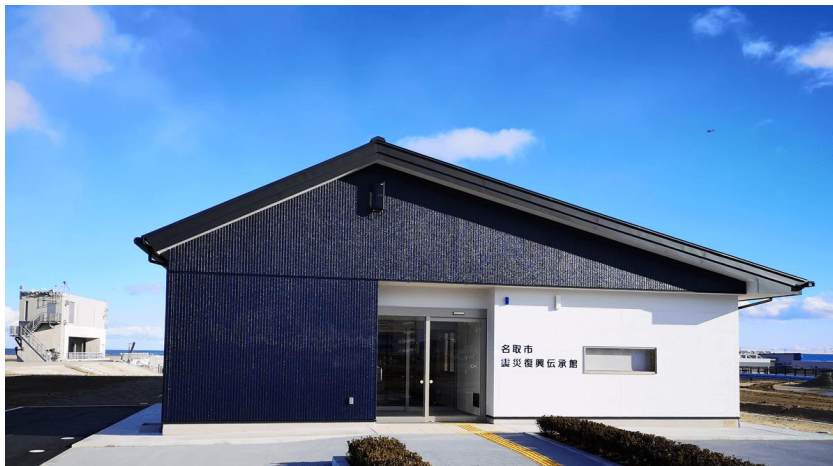
Fieldwork I: Arahama Elementary School and Natori-Denshokan

• Arahama Elementary School



This facility preserves and maintains the school building of the Arahama Elementary School in Sendai, which was damaged by the Great East Japan Earthquake on March 11, 2011, as a relic of the disaster, with the aim of raising awareness of disaster prevention and disaster mitigation among many people. The school building, which still retains clear traces of the disaster, is open to the public and exhibits images and videos of the immediate aftermath of the disaster so that visitors can experience the power and threat of the tsunami.

• Natori-Denshokan



The museum aims to pass on the memories and lessons of the Great East Japan Earthquake to the rest of the world and to future generations, to keep the disaster from fading away, and to foster awareness of disaster prevention. We are grateful for all the support we have received and will continue to work together with storytellers and local residents involved in disaster prevention activities to help realize a society that is resilient to natural disasters.

Fieldwork II: Sen-en purification center and JNEX bioplant

Gathering: (reserved only) 8:50 at Aobayama bus stop

(集合：当日 8:50, バス停「青葉山駅前」。)

• Sen-en purification center



Sen-en purification center, receiving wastewater in 120,000 m³/day i, is the second largest WWTP in Miyagi-ken. The A/O and A/A/O methods are used to treat the wastewater and the sewage sludge is effectively digested for biogas, which is further converted to low-carbon electricity in the plant.

• Jnex bioplant

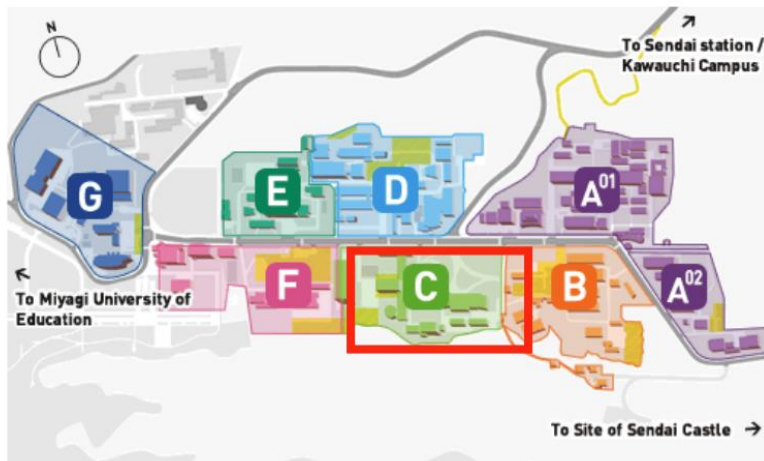


Jnex has been the largest biogas plant in Japan. This plant receives organic solid wastes from local areas and produces biogas, electricity and fertilizers. Jnex is making contributions to sustainable society in Sendai by reducing solid wastes, recycling bio-energy and reusing organic matters and nutrients.

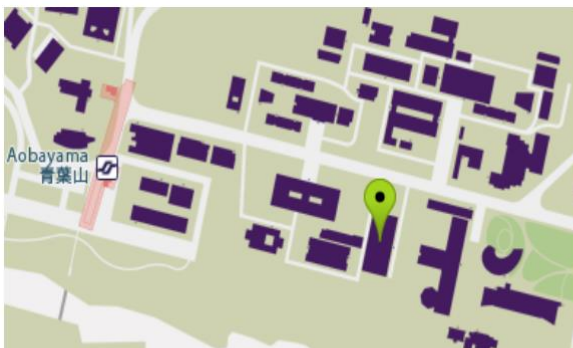
Venue

Aobayama Campus, Graduate School of Engineering, Tohoku University
(東北大学大学院工学研究科・青葉山キャンパス)

- Lectures: Room 110, Engineering Laboratory Complex building
(講演発表：総合研究棟(C10), 110号室)
- Posters: Room 201, Engineering Laboratory Complex building
(ポスター：総合研究棟(C10), 201号室)
- Dinner: Center hall Aoba restaurant
(懇親会：工学部中央棟・工学部食堂)

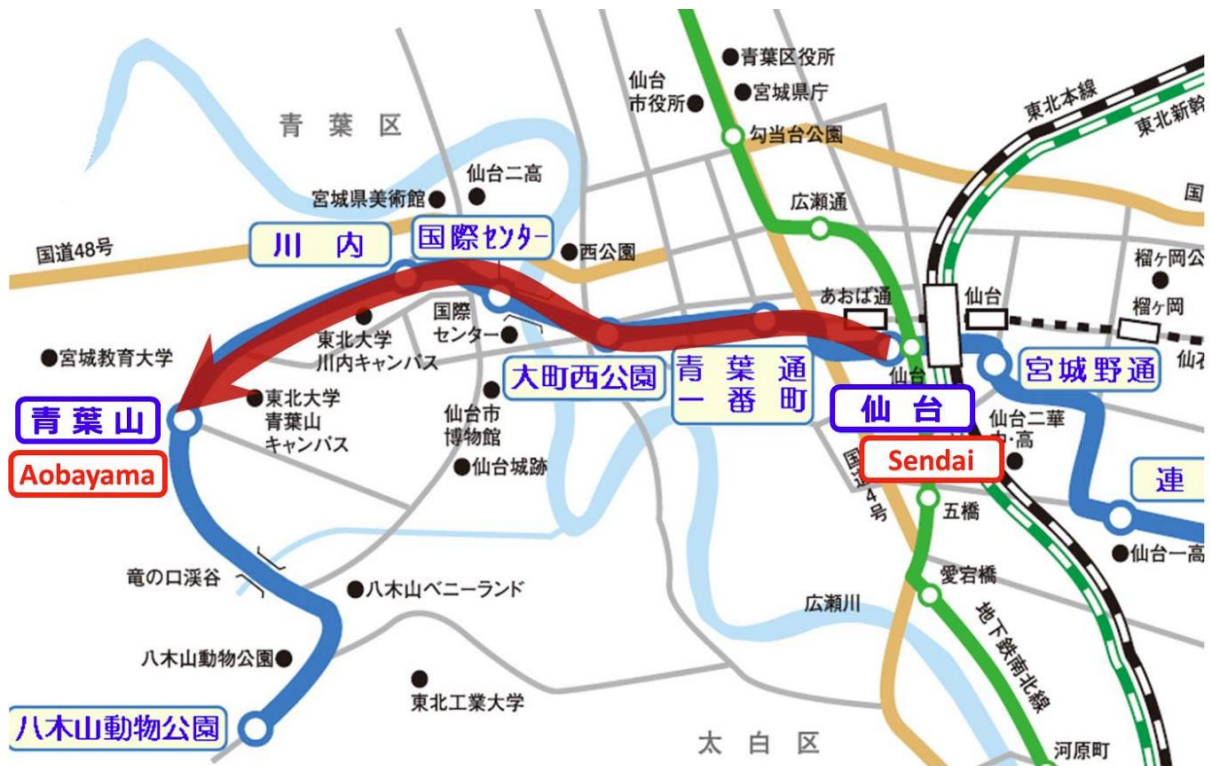


- A⁰¹** Mechanical and Aerospace Engineering
- A⁰²** Quantum Science and Energy Engineering
- B** Materials Science and Engineering
- C** Center Square
- D** Electrical Engineering and Applied Physics
- E** Applied Chemistry, Chemical Engineering and Biomolecular Engineering
- F** Civil Engineering and Architecture
- G** Various Area



Engineering Laboratory Complex building(総合研究棟)

Access



Public access: Only Subway **Tozai Line** is recommended.

If you start from **Sendai Station** (or Aoba-dori Ichiban-cho), please take the direction of Yagiyaama Zoological Park (Yagiyaama Dobutsu Koen) and get off at **Aobayama**. (250 Yen)

公共交通機関： 地下鉄・東西線のみおススメ

「仙台駅」(又は「青葉通一番町」)から「八木山動物公園」方面に「青葉山」まで。
(運賃：250 円)