

# Osaka University Hamadohri Environmental Radiation school IEEE/NPSS Climate Change Initiative Workshop

Competition on CLIMATE CHANGE AND SUSTAINABILITY TECHNICAL IDEAS

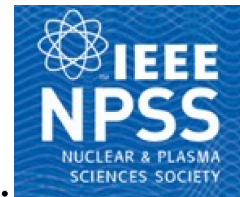
<https://indico.rcnp.osaka-u.ac.jp/e/CC2024>



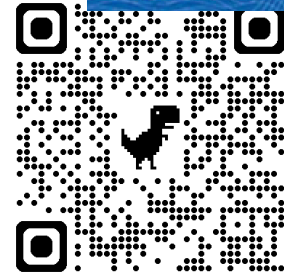
9 - 14 September 2024

Fukushima Hamadohri, Japan

Venue: Osaka University Hamadohri campus



Osaka University Hamadohri Environmental Radiation school is followed by IEEE/NPSS Climate Change Initiative Workshop 2024. Selected students are invited to them. Undergraduate students are welcome. Graduate students can also apply. We don't require only basic knowledge. Any major subjects in university are welcome.



## Hamadohri school

Hamadohri school focus on the Great East Japan Earthquake that occurred on March 11, 2011, particularly from the viewpoint of radiation, with the aim of understanding what happened at that time, the subsequent evacuation and reconstruction process, and the current situation from both natural and social scientific viewpoints, and to deepen the students' individual ideas. The purpose of this course is to deepen the students' own understanding of the situation in the region and to deepen their own ideas.

Many residents have not only suffered direct damage from the earthquake, tsunami, and subsequent nuclear accident, but have also been afflicted with a variety of derivative problems, such as insecurity and inconvenience in evacuation centers, community fragmentation, discrimination, and harmful rumors. We are only slightly aware of the situation through the mass media, but we can hardly feel the reality of the situation. In this workshop, we will visit the affected areas, measure the current radiation levels ourselves, and understand the biological effects from a scientific perspective. We will also hear directly from local residents about how they have lived their lives and what they have experienced since the disaster. Students will discuss and deepen their ideas about how they should respond to the situation, what they can do in the future, and how Japan should respond to reconstruction measures, disaster response, energy issues, etc.



## Climate Change workshop

The World is engaged in the challenge of a rapid decarbonization of the economy to control global warming. The increasing and almost daily natural disasters directly related to the temperature increase both atmospherically and in the oceans, is pushing the entire world population to take urgent actions to mitigate, in any possible way, further and irreversible climate changes.

The IEEE Nuclear and Plasma Sciences Society is joining this effort, to explore its inherent assets and potentials in the energy and detection sectors to actively contribute both technically and educationally to the challenge. The event will explore energy, plasma and fission possibilities as well as the important role of information and the danger of fake news.

The workshop includes,

### Technical talks

Harnessing Energy  
Fusion Energy  
Fission Energy

### Student presentations

Presentation by 10 selected students

### Discussion

Fake news

## Competition

We are calling for Technical Ideas on Climate Change and Sustainability. Topics covered are:

- clean energy and sustainable life,
- agriculture,
- clean water,
- health,
- disability, the elderly and adaptation,
- net zero supply chain,
- environmental monitoring,
- new ideas in climate change education

10 students will be invited to present their idea. The best idea will be invited to the next workshop in Tampa, US.

## Application

For the selected students, the workshop supports local expense (including local transportation) for both Hamadohri Environmental Radiation School 9-13 September and the workshop 14 September. The limited support for airfare is also possible.

Please visit Web page (<https://indico.rcnp.osaka-u.ac.jp/e/CC2024>). Apply through the registration page **by the end of June**.

IEEE/NPSS Radiation measurements school 2024 will follow them. If you are interested in this technical school, please register through <https://indico.rcnp.osaka-u.ac.jp/e/Educom2024>.

We may make remote interview to select students if necessary.

## Organization

The school is organized by Osaka University, Institute for Radiation Science and Research Center for Nuclear Physics. The workshop is sponsored by IEEE/NPSS Climate Change Initiative.