

# International Symposium on Natural and Artificial Radiation Exposures and Radiological Protection Studies (NARE 2023)

## First circular

19 – 22 September, 2023  
Hirosaki, Japan (to be held in-person)

### Symposium Chair

Shinji TOKONAMI (Hirosaki Univ.)  
Yoshiya SHIMADA (Institute for Environmental Sciences)

### Organizer Institutions

Hirosaki University  
Institute for Environmental Sciences

Source: Hirosaki Park  
General Information Site



NARE 2023  
Hirosaki City

### Contact information

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## Welcome message

Hirosaki University and the Institute for Environmental Sciences, as core facilities in Japan, are responsible for promoting research and fostering human resources in radiological sciences. We have promoted research on natural radiation and biological effects, as well as environmental and biological impact of the artificial radionuclides resulting from the Fukushima Daiichi Nuclear Power Plant accident. On the other hand, the use of nuclear energy is expected to expand due to the increasing demand for energy and the need to secure stable energy sources. Many nuclear facilities are located around the world, and studies on the impacts of nuclear power under normal operation have been conducted. However, as a result of the global COVID-19 outbreak, which has restricted collaborative research and personnel exchange, the challenge is how to share the latest knowledge on radiation protection with the community for the safe use of radiation.

Therefore, we have decided to organize the "International Symposium on Natural and Artificial Radiation Exposures and Radiological Protection Studies" **face-to-face** in Hirosaki, Japan. This symposium will cover not only natural radiation but also artificial radionuclides and will cover a wide range of topics. We would therefore like to invite you to submit your research results to the symposium. We look forward to seeing you in the apple-scented city of Hirosaki.

Shinji TOKONAMI & Yoshiya SHIMADA  
Chairs of NARE2023



## Topics

- ✓ Natural and artificial radioactivity
- ✓ High background radiation
- ✓ Radiation measurements
- ✓ Radiation biology
- ✓ Dosimetry
- ✓ Quality assurance
- ✓ Radiation protection
- ✓ Epidemiology
- ✓ NORM/TENORM
- ✓ Risk communication
- ✓ Radioactive tracer
- ✓ Medical and occupational exposure
- ✓ Radiation emergency medicine
- ✓ Human resource development



## Important dates

|                                 |                    |
|---------------------------------|--------------------|
| Call for abstracts              | 15 January, 2023   |
| Abstract submission deadline    | 15 March, 2023     |
| Acceptance notification         | 15 May, 2023       |
| Full paper submission deadline* | 30 September, 2023 |

\* Papers will be peer reviewed and published in an international journal as proceedings

## Registration fee (tentative)

|                     |            |
|---------------------|------------|
| Regular participant | 50,000 JPY |
| Student             | 20,000 JPY |
| Accompanying person | 15,000 JPY |

## Access

