Radioecologcal Society in Japan

✓ Society

Japan Health Physics Society

Atomic Energy Society of Japan

Japanese Society of Soil Science and Plant Nutrition

The Japanese Radiation Research Society

The Society for Remediation of radiative Contamination in Environment

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Radioecologcal Institution in Japan

✓ University and Institute

Institute of Environmental Radioactivity, Fukushima University

Kyoto University Research Reactor Institute

University of Tokyo

Research Institute for radiation Biology and Medicine, Hiroshima University

Center for Research in Isotopes and Environmental Dynamics, University of Tsukuba

National Institute of Radiological Sciences

Institute for Environmental Sciences

Japan Atomic Energy Agency

National Agriculture and Food Research Organization

Fukushima Prefecture, Aomori Prefecture

Department of IER at Fukushima University

Division

Radionuclide Measurement and Reference Materials

放射性物質の化学的特性の分析 手法を開発する。



高瀬つぎ子 特任准教授

Speciation Radiochemistry

放射性物質の移行に伴う化学的 ならびに物理化学的形態を分析 する。





イスマイル・ラーマン 准教授

高貝慶隆 准教授※



研究所のロゴ

青は水・海、 緑は大地・森、 橙は空気・夕焼け を表している。

Marine Radionuclide Dynamics

海洋の流動に伴う放射性物質の 移行を解明する。



青山道夫

Division

Atmospheric Radionuclide **Dvnamics**

大気を通じた放射性物質の移行 を解明する。





渡邊 明 教授※

平尾茂一

Terrestrial Radionuclide **Dynamics**

陸域の土砂移動に伴う放射性物 質の移行を解明する。





川越清樹 准教授※

脇山義史 講師

Radiological Hydrology

水文学的現象に伴う河川や湖沼 での放射性物質の陸域からの移 行を解明する。



マーク・ジェレズニヤク



アレクセイ・コノプリョフ



教授※

柴﨑直明

Radiation Morphology Radioisotope Geoscience Radioecological Transfer and Effects

Forest Radioecology

森林生態系の放射性物質の循環 のプロセス研究を行う。



ヴァシル・ヨシェンコ 特任教授

Fresh Water Radioecology

陸水圏における放射性物質の生 物への移行を解明する。





難波謙二

和田敏裕 准教授

Soil and Plant Dynamics

土壌並びに植物等への放射性物 質の移行を解明する。



塚田祥文

Animal Radioecological Effects

放射線の野生動物に与える生物 学的影響を解明する。





トーマス・ヒントン

奥田 圭 特任助教

Plant Radioecological Effects

放射能の微生物・藻類・植物に与 える生物学的影響を解明する

兼子伸吾 准教授※

Forecasting Division

Radiation and Transfer Modelling

計算機シミュレーション等により放 射性物質の移動並びに線量を評 価・予測する。

Measurements and Research Coordination Division

Data Archives and Statistics

本研究所並びに世界各国機関の 研究成果,資料・試料などを整理・ 保管・発掘・分析するとともに、世界 各国の研究者の求めに応じて、資 料・試料の提供なども行う。

Monitoring Systems Development

放射線モニタリングシステム. 放 射線測定システムに関する技術 開発を行う。



山口克彦 教授※

Mechatronics Systems Development

人が直接実施することが困難な 場所でのサンプリングや遠隔操 作に関するメカトロニクス機器の 開発を行う。



高橋降行 教授※

※印は理工と兼務 太字は常勤研究員

Nationality Ukrainian. Russian. American. ¦Japanese. !Bangladesh

Staffs (36)

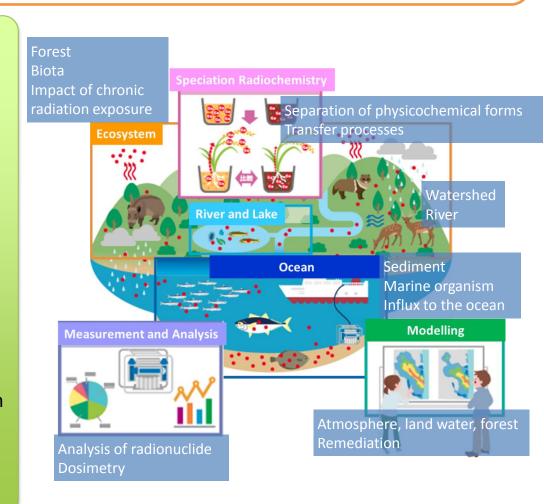
Director (1), vice-director (2), Professor (3), Associate professor (2), Senior associate: professor (2), Project professor (3), Project! associate professor (1), Project assistant professor (1), Cooperative professor and associate professor (9), Technical staff (2), Technical assistant staff (5), Administrative \staff(8)

Objective of Institute of Environmental Radioactivity

Undertake both basic and applied researches on radionuclide behavior in the environment. By integrating knowledge and practical experiences of a wide range of fields in radioecology, IER aims to become a Center of Excellence and an international hub for advanced radioecological and related environmental research.

Major Projects

- Long-term investigation regarding the dynamics and effects of radioactive materials on the environment.
- The development of principles and technology for the measurement of radiation and materials in the environment.
- Deciphering of the mechanisms of the transmission of radioactive materials from environment to animals through the food chain.
- Analysis of the transition process of the change of radioactive nuclides through climatic phenomena.
- Role as a think tank regarding rehabilitation assistances to the environment.
- Storage of documents and samples, and preservation of research strategies and objects.



6 projects in IER

Rivers & Lakes	To investigate radionuclide transport from terrestrial to aquatic systems and elucidate the mechanisms
Ocean	To clarify the behavior of radionuclides in the marine environment
Ecosystems	To elucidate the migration of radionuclides within ecosystems and study the effects to biota from chronic exposures
Measurement & Analysis	To develop new methodologies to measure radionuclides in the environment and design measurement/analysis instruments
Speciation Radiochemistry	To clarify physicochemical forms of radionuclides and their effects on radionuclide behavior in the environment
Modelling	To develop modelling tools to simulate and predict radionuclide dynamics among different environmental compartments

Perspectives and orientations for the future

- ✓ Forest observatory site of Fukushima University
- Yamakiya disaster site (Kawamata, Fukushima)
- ✓ Main building (scheduled to be completed in 2017 spring)
- ✓ Graduate school (planning 2018)
- ✓ Joint Usage / Research Center (planning)