

*IUR International Workshop
Worldwide harmonization of radioecology networks
18-20 Jun 2014 La Baume Aix en provence*

Future of Institute of Environmental Radioactivity At Fukushima University

Kenji NANBA

IER at FU



IER is planning to

- Organize an investigation on biota for IER forest site as a part of COMET study this summer.
- Publish call for positions of research staff (n ~ 8) in Jul. (or Aug?)
- Have graduate course for environmental radioactivity in the future

Research staff in IER at Fukushima Univ.

Welcoming scientists within Japan & other countries

Already decided (France, Scotland, US)

Be more International.

Staffs from more various countries.

Be more radioecological.

IER must

- have scientific outcomes to have continued funded.
- increase efficiency by networking among Japanese Universities.

Research staff in IER at Fukushima Univ.

	Director Takahashi, Takayuki <u>Robotics</u> Development of Sampling / measuring instruments		Project professor Alexei Konoplev Radiochemistry and radiobiology		Project associate professor Takase, Tsugiko Physical chemistry Development of analytical technique
	Deputy director Nanba, Kenji Environmental Microbiology Transfer of rCs in freshwater system		Project professor Sergii Kivva Statistics and Hydrology Environmental modeling		Project assistant professor Olena Parenuik Radiobiology Soil microbiology
	Deputy director Onda, Yuichi Hydrology Transfer in forest and aquatic system		Project professor Mark Zheleznyak Hydrology Modeling of nuclear transfer in Water system		Project assistant professor Okuda, Kei Zoology Radioecology of wild mammals
	Professor Tsukada, Hirofumi Radioecology Agricultural env. and products		Project professor Beata Varga Radiochemistry QA reference material		Cooperative researcher Ishimaru, Takashi Marine ecology
	Professor Aoyama, Michio Marine physics and chemistry		Project professor Vasyi Yoschenko Radioecology Forest ecology and products		Cooperative researchers Oguri, Emiko Botany Hiroshima Univ. Shouikamy Ibrahim Mahmoud Ibrahim Zoology Hiroshima Univ. Mitsutake, Norisato Nagasaki Univ. Ogi, Tomoo Nagasaki Univ.
			Project professor Valentine Golosov Geomorphology Nuclear transfer in the environment		Participating profs from SSS Fukushima Univ. Watanabe, Akira Meteorology Yamaguchi, Katsuhiko Physics Takagai, Yoshitaka Analytical chemistry Yokoo, Yoshi Hydrology-Civil engineering Kawagoe, Seiki Hydrology of watershed

Current Needs Among Scientific Communities:

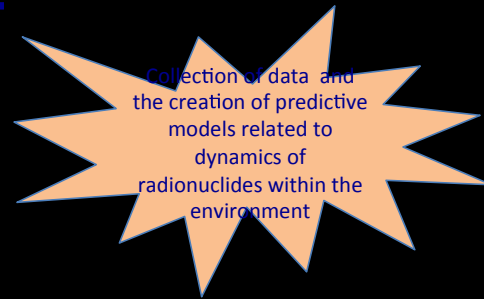
A research base close to observatory sites in Fukushima

Research strategies are chosen by a committee of partner research institutions

- ⇒ Projects will take place in a variety of environmental settings, including forests, rivers, lakes, and the sea
- ⇒ Models for predicting future radioactive material transfer within these environments will be established by integrating collected data

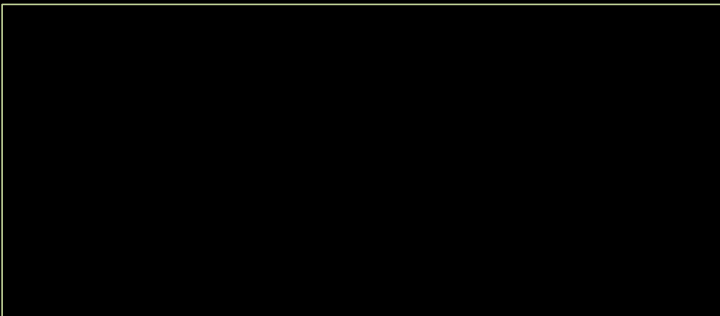
The institute will be made available for shared use by universities, institutes, and researchers from Japan and around the world.

- Investigations, observations and experiments in Fukushima
- Primary processing of samples
- Analysis of samples
- Archives of early samples
- Provision of the archives
- Archives of data and documents
- Modeling for prediction
- Convening scientific meetings



Expected Users

- International Organizations
 - IAEA
 - STAR
 - COMET
- Europe
 - Glasgow University
 - Sheffield University
 - Plymouth University
 - Liverpool University
 - IRSN
 - LSCE
 - SCK • CEN
 - Karlsruhe Inst. Technol.
 - Moscow University
 - Belarus National University
 - UHMI
 - NAN Ukraine
- North America
 - Colorado State University



<<http://www.iges.or.jp/en/fairdo/index.html>>

Understanding current status in radioactive pollution-affected areas, drawing on knowledge and experiences gained from Europe, and contributing to effective decontamination

**3 Research Components: Governance, Decontamination Plans
and Communication with Local Residents**

**(1) Effective governance on
decontamination**

**(2) Development of decontamination
plans that reflect local conditions**

**(3) Communication that promotes
collaboration with local residents**



Three New Institutes

