

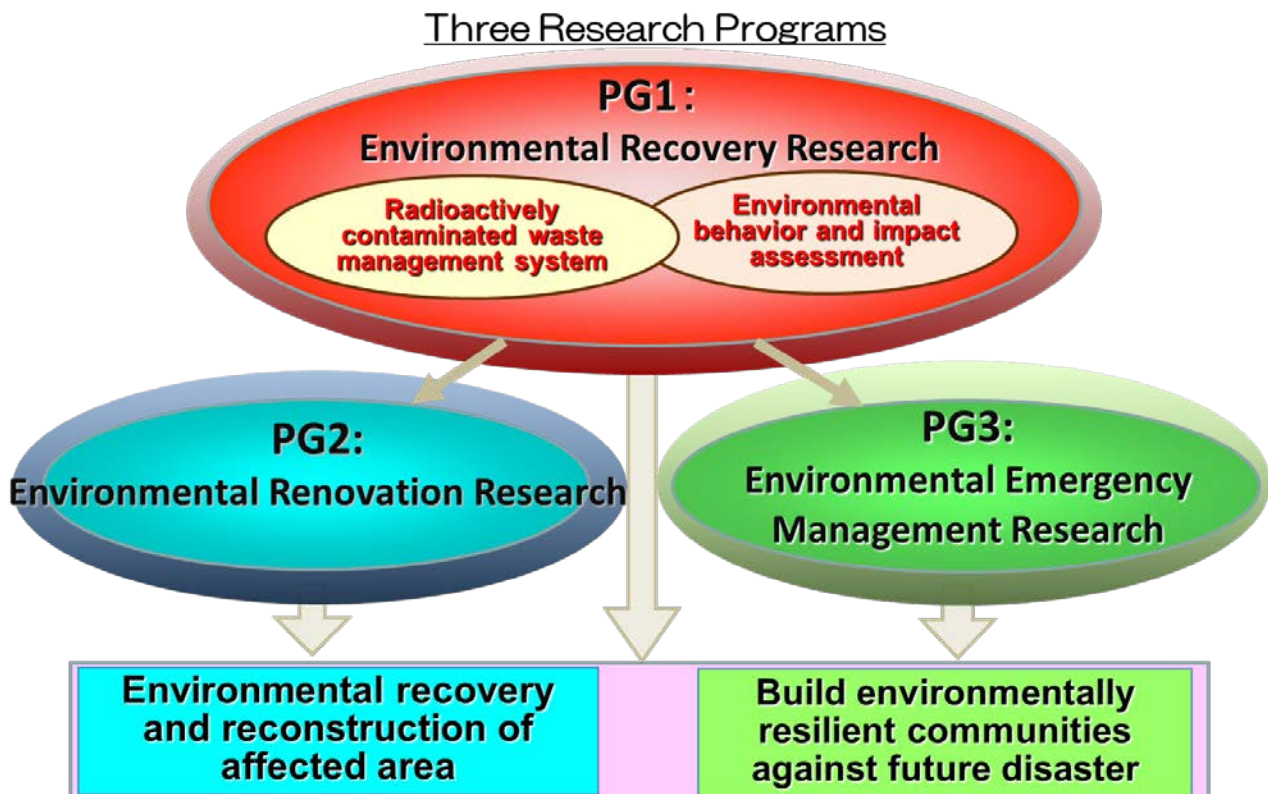
NIES International Advisory Board 2018

- *Environmental Emergency Research Program* -

28 – 30 August 2018, Tsukuba City and Fukushima Prefecture, Japan
Tsukuba International Congress Center, Several venues in Fukushima Prefecture

Advisors: Prof. Miranda SCHREURS
Prof. Yong-Chil SEO
Dr. Klement TOCKNER

In April 2016, NIES established our first regional branch, NIES Fukushima Branch, within the Environmental Creation Center in Miharu Town, Fukushima Prefecture. In collaboration with NIES Tsukuba Headquarters, NIES Fukushima Branch is committed to support the reconstruction and environmental recovery of disaster areas through research and technology within the framework of **Environmental Emergency Research Program** which consists of three problem-solving research programs: Environmental Recovery Research (PG1); Environmental Renovation Research (PG2); and Environmental Emergency Management Research (PG3) (also shown by the figure below). This research program aims to help shaping Japan’s future as an environmentally sustainable society equipped to withstand disasters. **In IAB 2018**, these three research will be presented.



Tuesday, 28 August 2018 (DAY 1) (tentative)

Venue: Tsukuba International Congress Center

9:20 – 10:20 Plenary Session

- 1) Opening Remark (Dr. Chiho WATANABE, President)
- 2) IAB Introduction (Dr. Hideo HARASAWA, Vice President)
- 3) Overview of Environmental Emergency Research Program (Dr. Toshimasa OHARA, Research Director of NIES Fukushima Branch)

10:15 – 10:20 Photo Session

10:20 – 10:30 Coffee Break

10:30 – 12:00 Working Group 1

Environmental Recovery Research Program (1)
Radioactive off-site waste Research
PI: Dr. Masato YAMADA

- 1) Overview of the Radioactive off-Site Waste Research (Dr. Masato YAMADA)
- 2) Behavior of radioactive cesium during incinerations of MSW and decontamination waste, and development of thermal treatments for recycling incineration residues. (Dr. Hidetoshi KURAMOCHI)
- 3) Flow and stock analysis of radioactive cesium through waste treatment and recycling systems. (Dr. Masahiro OGUCHI, Dr. Masato YAMADA)
- 4) Development and evaluation of monitoring methods for radioactive contaminated wastes. (Dr. Takashi YAMAMOTO)
- 5) Contaminated waste solidification for landfilling, and removed soil storage test for interim storage facility. (Dr. Kazuto ENDO)
- 6) Required technologies relating advanced volume reduction and final package formation for the final disposal after interim storage. (Dr. Kazuo YAMADA)

12:00 – 13:30 Lunch (ESPOIR, Tsukuba International Congress Center, 1F)

13:30 – 15:00 Working Group 2

Environmental Recovery Research Program (2)
Environmental Behavior and Impact Assessment Research
PI: Dr. Seiji HAYASHI

- 1) Environmental Behavior and Impact Assessment Research: Approach and perspective. (Dr. Seiji HAYASHI)
- 2) Analysis and prediction of the behavior of radioactive substances in multimedia environments: Approach and perspective. (Dr. Seiji HAYASHI)
- 3) Dissolved ^{137}Cs runoff in a high-dose-rate forested watershed. (Dr. Hideki TSUJI)
- 4) Radiocesium accumulation in freshwater fish and aquatic organisms in Fukushima lakes and river. (Dr. Yumiko ISHII)
- 5) Researches of direct and indirect effects from low-dose radiation on wild organisms in Fukushima. (Dr. Masanori TAMAOKI)
- 6) Monitoring flying insects inside and outside the Fukushima evacuation zone. (Dr. Akira

YOSHIOKA)

- 7) Monitoring and modeling of dynamics of radionuclides and radiation dose in daily life in affected area by FDNPP accident. (Atsushi TANAKA and Dr. Mai TAKAGI)

15:00 – 15:30 Coffee Break

15:30 – 17:00 Working Group 3
Environmental Renovation Research Program
PI: Dr. Tsuyoshi FUJITA

- 1) Policy of environmental renovation research program. (Dr. Tsuyoshi FUJITA)
- 2) Development of regional information systems for environmental renovation. (Dr. Kei GOMI)
- 3) Development of a model for assessing regional scenarios for environmental creation. (Dr. Makoto OBA)
- 4) Development and implementation of environmental renovation methodologies with multi-stakeholder participation. (Dr. Yujiro HIRANO)

18:00 – 20:00 Reception (ESPOIR, Tsukuba International Congress Center, 1F)

Wednesday, 29 August 2018 (DAY2) (tentative)

Venue: Tsukuba International Congress Center

10:00 – 11:30 Working Group 4
Environmental Emergency Management Research Program
PIs: Dr. Masahiro OSAKO and Dr. Noriyuki SUZUKI

- 1) Establishment of disaster-resilient waste management systems and strategies. (Dr. Masahiro OSAKO)
- 2) Development of disaster waste management technologies. (TBD)
- 3) Health and environmental risk management strategies in disaster environments. (Dr. Noriyuki SUZUKI)
- 4) Setting target control levels for chemical contamination in disaster environments. (Dr. Yosuke KOYAMA)
- 5) Establishing comprehensive analytical technologies and sampling technologies for emergency contamination. (Dr. Daisuke NAKAJIMA and/or Dr. Yoshikatsu TAKAZAWA)
- 6) Clarifying the long-term ecological impacts of disastrous events on coastal ecosystem. (Dr. Noriyuki SUZUKI)

11:30 – 13:00 Lunch (Room 406, Tsukuba International Congress Center, 4F)

13:00 – 14:00 Advisor's Meeting (Closed)

14:00 – 15:00 Discussion & Closing Session

- 1) Introduction
- 2) Discussion
- 3) Closing Remark (Dr. Chiho WATANABE, President)

As of July 6, 2018

NIES International Advisory Board Office

15:00 – 18:00 **Depart to Sendai**

Thursday, August 30, 2018 (DAY3) (tentative)

9:00 – 16:00 **Site Visit at Fukushima Prefecture (Venues are TBD)**

16:00 – **Depart to Tsukuba**