



ISET-R NEWS LETTER

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<http://www.ied.tsukuba.ac.jp/hydrogeo/isetr/>

ISET-R Symposium on Jan. 9 & 10, 2015 @ Advanced Research Laboratory Building A, University of Tsukuba



Courtesy of Japan Geoscience Union



ISET-R Symposium was held at Advanced Research Laboratory Building A in University of Tsukuba on January 9 and 10, 2015. A total of 122 participants, including ISET-R members, students, and researchers invited from abroad took part in the two-day symposium. Active discussions and exchange of views were presented, aiming to develop a new research field that will lead the world.

On the first day of the “International Symposium on Interdisciplinary Study on Environmental Transfer of Radionuclides from the

Fukushima Daiichi NPP Accident,” principal investigators of the research groups from A01-1 to A04-8 reported on their research results regarding the grasp of current contamination level of Fukushima-derived radionuclides and the clarification of transfer and diffusion processes of radionuclides.

The guest speakers from abroad, who engage in research in isotopes and environmental dynamics, made comments on the presentations by principal investigators and displayed their views on the future outlook.

Day 1 (January 9, 2015)

International Symposium on Interdisciplinary Study on Environmental Transfer of Radionuclides from the Fukushima Daiichi NPP Accident

Group A01 The effect of radionuclides on the atmosphere

Teruyuki Nakajima (Univ. of Tokyo)

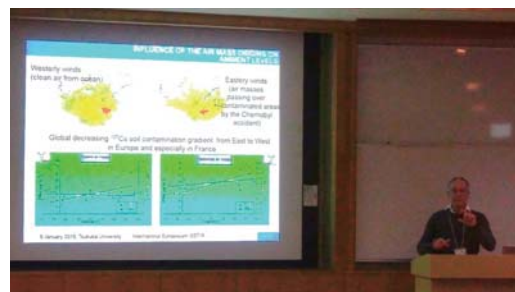
“Understanding of atmospheric transport modeling of fallout radionuclides and migration processes”

Yasuhito Igarashi (Meteorological Research Institute)

“Understanding of atmospheric deposition, diffusion processes and land atmosphere interaction of radioactive materials”

Olivier Masson (IRSN, France)

“Comments on atmospheric issues”



Dr. Olivier Masson

Group A02 The effect of radionuclides on the ocean



Dr. Pavel. P. Povinec

Masatoshi Yamada (Hirosaki Univ.)

“Understanding the distribution of radioactive materials in sea and seafloor sediment”

Jota Kanda (Tokyo University of Marine Science and Technology)

“Understanding the migration and concentration of radioactive materials in marine ecosystems”

Pavel. P. Povinec (Comenius Univ., Slovakia)

“Comments on ocean issues”

Group A03 The terrestrial migration of radionuclides

Yuichi Onda (Univ. of Tsukuba)

“Understanding the migration process of radionuclides associated with water and sediment movement”

Chisato Takenaka (Nagoya Univ.)

“Understanding the dynamics of radionuclides in terrestrial ecosystems”

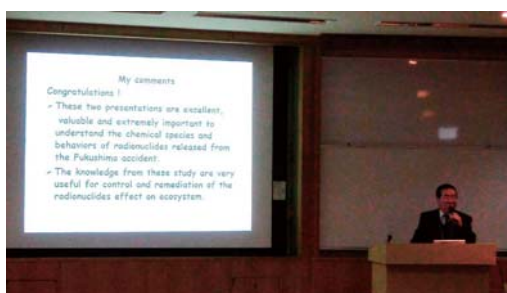
Sergey Fesenko (Environmental Lab. IAEA)

“Comments on terrestrial issues”



Dr. Sergey Fesenko

Group A04 The existence form of radionuclide and development of measurement technique



Dr. Chai, Zhifang

Masayoshi Yamamoto (Kanazawa Univ.)

“Development of microanalysis technology and chemical form of radioactive materials with migration”

Atsushi Shinohara (Osaka Univ.)

“Development of technology and radiation measurement in various chemical forms”

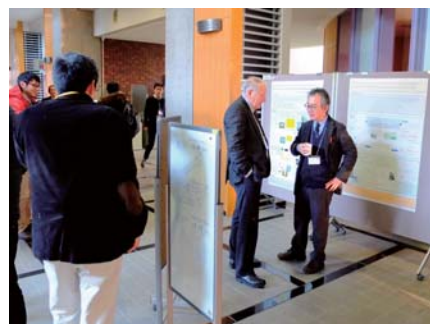
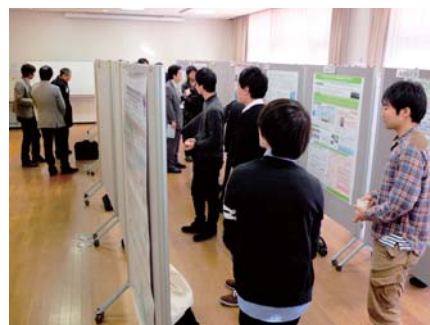
Chai, Zhifang (Institute of High Energy Physics, Chinese Academy of Sciences, China)

“Comments on chemical form and radiation measurements”

Poster Session

Poster Session was held during lunch break. On the first day, English posters summarizing research results of each group were posted. On the second day, many of the ISET-R members introduced their research results.

In front of more than 80 posters displayed, speakers discussed their findings and ideas with fellow participants, offering great opportunities to deepen mutual understandings.



Poster Session

Conference Party

A conference party was held at the end of the first-day symposium, bringing together over 100 researchers. An award ceremony was held to honor participants of the ISET-R programs fostering young researchers, which is one of the most emphasized targets of ISET-R. This year, certificates were offered to Dr. Yoshifumi Wakiyama at University of Tsukuba and Ms. Shizuka Matsunaga at Osaka University by the head investigator.

We hope that more and more young researchers join the programs and become a recipients of the award next year.

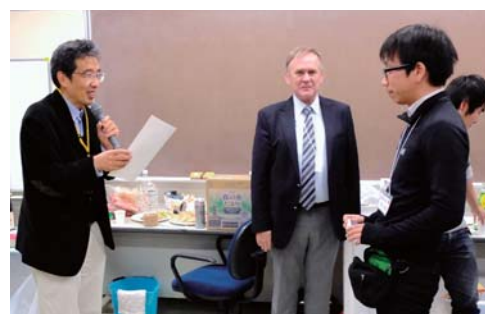
•••• Comments from the award winners ••••

■Dr. Yoshifumi Wakiyama at University of Tsukuba

I was able to gain valuable experience through these programs for young researchers. I would like to express my sincere gratitude to the professors and persons concerned. I will make the most of this experience in my future research work.

■Ms. Shizuka Matsunaga at Osaka University

My main work at laboratory is to measure radioactivity. In the training programs I participated, I had opportunities to collect samples in the field and to analyze samples I have never touched before. I realized “seeing is believing”



Award Ceremony



Dr. Wakiyama (left) and Ms. Matsunaga (right)

through trainings in different research field. Having greatly inspired by students and researchers from different universities, I made a fresh resolve to deepen my research. My heartfelt gratitude goes to professors and administrative staff who have supported this program.

International Symposium on Interdisciplinary Study on Environmental Transfer of Radionuclides from the Fukushima Daiichi NPP Accident

The morning session began with the report on interim evaluation and the future plan of the research projects by the head investigator, Professor Yuichi Onda at University of Tsukuba, followed by the progress reports and results presented by the research group recruited from the public.

In the afternoon, the researchers invited from external research institutions, who play an influential role in Center for Research in Isotopes and Environmental Dynamics, displayed their views on developments and outlook of the research and a valuable exchange of views was held among participants.

Future plan of the research field

Yuichi Onda (Head investigator)



The following four points were raised as the most critical issues to deal with in the future promotion plan.

1. Embodiment of a new research field by promoting collaborative research
2. Promotion of international collaboration
3. Fulfillment of fostering young researchers
4. Transmission of information



Research group recruited from the public

- A01 Chisato YOSHIKAWA, JAMSTEC**
- A01 Izumi NAKAI, Tokyo University of Science**
- A02 Jing ZHANG, University of Toyama**
- A02 Yusuke UCHIYAMA, Kobe University**
- A02 Yayoi INOMATA, Asia Center for Air Pollution Research**



Dr. Chisato YOSHIKAWA



Dr. Keisuke FUKUSHI

- A03 Tsuyoshi KINOUCHI [Megumi ARAYA, Teppei OMATA], Tokyo Institute of Technology**
- A03 Chihiro Yoshimura, Tokyo Institute of Technology**
- A03 Keisuke FUKUSHI, Kanazawa University**
- A03 Kazuhiko FUKUSHIMA [Dan AOKI], Nagoya University**

Research in isotopes and environmental dynamics at other institutions

- Seiji HAYASHI, National Institute for Environmental Studies**
- Kazuki IJIMA, Japan Atomic Energy Agency**
- Tokushi SHIBATA, Japan Radioisotope Association**

After the presentation session, the floor was opened to lively discussions. The two-day symposium closed with a success.

Acknowledgment

This symposium was supported by Japan Geoscience Union. We would like express our sincere gratitude for their support.

※Reading materials for the symposium are posted on our ISET-R website at (<http://www.ied.tsukuba.ac.jp/hydrogeo/isetr/>).