

**TTWS2021JPN-RP,
Training Trainers Workshop, 2021, Japan**



IAEA RAS0079TCP,
Educating Secondary Students and Science Teachers
on Nuclear Science and Technology,

**Virtual Regional Training Course
on NST specialized Programme
in the Field of Radiation Protection**

5 August – 1 September 2021



Hosted by

Science and Technology
Information Forum(STIF), Japan

Supported by

The University of Tokyo
(Div. for EHS, UTokyo)

Messages from Hosts

Organizer



Ms Marina binti MISHAR

Section Head, Programme Management Officer

Division for Asia and the Pacific Section 2,
Department of Technical Cooperation (TC),
International Atomic Energy Agency

Nuclear Science and Technology (NST) plays a significant role in the achievement of many of the SDGs, especially in health, food availability, energy and the environment, and contributes directly to 9 of the 17 SDGs. The IAEA TC Project RAS0079 has and continues to pave the way through science teachers in engaging secondary students to be introduced to NST to ensure the sustainability of HR in the region. Much appreciation to the Government of Japan and in particular STIF and The University of Tokyo for hosting and supporting this event and sharing their valuable expertise to teachers in the region, transforming theoretical into practical. Through this event we aim to equip you with the necessary technical and communication skills on radiation protection and safety with the goal of creating a pool of trained experts (leading teachers or star teachers) who will expand the knowledge to other teachers. My heartfelt thanks to the course director, Prof Imoto and his team hard work in realizing this event.

Course Director



Prof. Takeshi IIMOTO

IAEA International Expert

Division for Environment, Health and Safety
The University of Tokyo

Welcome to our workshop!

First of all, as the course director, I would like to express my sincere gratitude to all lecturers and Japanese organizations, which are STIF, UTokyo, MOFA, and MEXT, strongly supporting to us.

The IAEA TTWS 2021 JPN is aimed to strongly improve the NST literacy in each country of the Asia Pacific region mainly focusing on the radiation protection field, and to train star instructors who will be the core of secondary school education. I would like to set the keywords for the course as "STEAM" and "WOW factor". I believe the two will lead us to the success of our mission as we have done so far. Anyway, let's enjoy our workshop together with big WOW feelings, and please share your experiences and impression with your colleagues as much as possible. I hope our 11-day-workshop of will be meaningful not only for you but for your country, the larger region, and even the whole world.

Main Supporters

Hosted locally and supported by



President
Science and Technology
Information Forum
(NPO STIF)

Mr. Tominori SUZUKI

STIF as the local host for this workshop welcomes all participants. Japan experienced one of the largest nuclear disaster in Fukushima in 2011, “radiation” became an important theme in school education. STIF hopes that all participants share Japanese experiences on risk education focusing on radiation protection, and that a lot of talented instructors with balanced sense will develop in the Asia-Pacific region.



Vice President
Director of EHS
The University of Tokyo

Prof. Toshiharu KISHI

Welcome to UTokyo. I believe it is important for any country to improve the public understandings regarding maintaining environmental safety and health including radiation protection. STEAM education before the entrance to university will be a powerful key. I hope all of you will receive the latest knowledge and skills on radiation protection education from excellent professors and experts of UTokyo or else through this workshop.

Supported by



Director
International Nuclear
Cooperation Division,
Disarmament, Non-Proliferation
and Science Department,
Ministry of Foreign Affairs
(MOFA)

Mr. Shoichi NAGAYOSHI

Much gratitude to STIF and The University of Tokyo for strenuous arrangements and welcome to the participants. Japan strongly supports the IAEA in helping achieve SDGs via nuclear science and technology (NST). This workshop will definitely improve the NST literacy at schools. I hope the workshop will turn out to be most useful so that leading teachers could share with others the latest knowledge and skills on radiation protection throughout the region.



Director for International
Nuclear Cooperation,
Research and Development
Bureau, Ministry of Education,
Culture, Sports, Science and
Technology (MEXT)

Mr. Masafumi SATO

I would like to give a hearty welcome to all participants and to express my deep gratitude to the University of Tokyo for the hospitality of this workshop. MEXT highly appreciates this kind of international collaborative activities for nuclear science and technology education, and then has been supporting such efforts. I hope that this workshop will be finished successfully and that all stakeholders can take home meaningful suggestions and implications.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5 DAY1	6 DAY2	7
				Opening ceremony Lecture 1 /Basic Prof. IIMOTO Lecture 2 /Basic Assoc. prof. HOSOYA	Lecture 3 /Basic PhD SASAKI Lecture 4 /Basic Assoc. prof. TORII	
8	9 DAY3	10 DAY4	11	12 DAY5	13 DAY6	14
	Lecture 5 /Basic Prof. MATSUZAKI Lecture 6 /Basic PhD KANDA	Lecture 7 /Academic Prof. TANOI Lecture 8 /Academic Prof. IIMOTO		Lecture 9 /Academic Assoc. prof. SAITO Lecture 10 /Academic PhD OGAWA	Lecture 11 /Advanced PhD YASUDA Lecture 12 /Advanced PhD TAKAHASHI	
15	16 Assignment weeks (until 25 August)	17	18	19	20	21
22	23	24	25	26 DAY7	27 DAY8	28
				Lecture 13 /Advanced PhD TANI Lecture 14 /Application Assistant prof. HIGAKI	Lecture 15 /Application PhD HASHIMOTO Lecture 16 /Application PhD SHIMADA	
29	30 DAY9	31 DAY10	1, Sep. DAY extra.	<h2 style="text-align: right; color: #00AEEF;">August, 2021</h2> <h1 style="text-align: right; color: white;">Schedule</h1>		
	Presentations and round discussion Participants & Lecturers	Presentations and round discussion Participants & Lecturers	1, Sep. DAY extra. Virtual tour Closing ceremony Prof. IIMOTO			

Lecturer and Theme

Lecture No.	Lecturer	Title	Organization	Theme	Level
1	Takeshi IIMOTO	Prof.	Division for Environment Health and Safety, The University of Tokyo	RP as a secondary teaching theme: its wide scope and infinite possibility	Basic
2	Noriko HOSOYA	Assoc. prof.	Graduate School of Medicine, The University of Tokyo	Latest consensus in radiobiology	
3	Michiya SASAKI	PhD	Central Research Institute of Electric Power Industry	Latest consensus in radiation epidemiology	
4	Hiroyuki A. TORII	Assoc. prof.	School of Science, The University of Tokyo	Nuclear physics, radiation physics and chemistry	
5	Hiroyuki MATSUZAKI	Prof.	The University Museum, The University of Tokyo	Radiation measurement and accelerator science	Academic
6	Reiko KANDA	PhD	National Institutes for Quantum and Radiological Science and Technology	Risk communication in radiation protection	
7	Keitaro TANOI	Prof.	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Radiation protection in food	
8	Takeshi IIMOTO	Prof.	Graduate School of Frontier Sciences, The University of Tokyo	RP system and protection for natural radiation and radioactivity	Advanced
9	Takumi SAITO	Assoc. prof.	Graduate School of Engineering, The University of Tokyo	Protection on radioactive wastes	
10	Tatsuhiko OGAWA	PhD	Research Group for Radiation Transport Analysis, Japan Atomic Energy Agency	Analytical understanding of radiation behavior	Application
11	Hiroshi YASUDA	PhD	Hiroshima University	Advanced understanding of radiation units	
12	Fumiaki TAKAHASHI	PhD	Nuclear Science and Engineering Center, Japan Atomic Energy Agency	External exposure dosimetry and its practice	
13	Kotaro TANI	PhD	National Institutes for Quantum and Radiological Science and Technology	Internal exposure dosimetry and its practice	
14	Shogo HIGAKI	Assistant Prof.	Isotope Science Center, The University of Tokyo	Management and radiation protection practice of radiation facilities	
15	Makoto Hashimoto	PhD	Oarai Research and Development Institute, Japan Atomic Energy Agency	Management and radiation protection practices in nuclear facilities	
16	Kazumasa SHIMADA	PhD	Nuclear Safety Research Center, Japan Atomic Energy Agency	Radiation protection of the public in emergencies	

Operating Members

Junior Experts



Virtual Tours
Leader

D3
limoto Lab.
GSFS, UTokyo
from Malawi

Estiner W. Katengeza

Junior Experts



JE Leader

D2
limoto Lab.
GSFS, UTokyo
from Bangladesh

Md Mahamudul HASAN

Junior Experts



JE Sub leader

D1
limoto Lab.
GSFS, UTokyo
from Japan

Hiromi KOIKE

Junior Experts



M2
limoto Lab.
GSFS, UTokyo
from China

Qianhao JIN

Junior Experts



M2
limoto Lab.
GSFS, UTokyo
from Japan

Kazuto FUKUDA

Junior Experts



M2
limoto Lab.
GSFS, UTokyo
from China

Qinyou ZHUANG

Junior Experts



M1
limoto Lab.
GSFS, UTokyo
from Japan

Tomoyuki MIYAZAKI



Research Associate
limoto Lab.
EHS, UTokyo

Masahiro OKURA



Secretary
limoto Lab.
EHS, UTokyo

Hitomi NAKAMURA

Secretary
limoto Lab.
EHS, UTokyo



Aya YOSHIYAMA

Secretariat
Science and Technology
Information Forum(NPO)



Tadakuni SOEJIMA

Secretariat at
IAEA side

Consultant
Division of Asia and the
Pacific, Department of
Technical Cooperation,
International Atomic
Energy Agency



Koichi WATANABE

Secretariat of
TTWS2021JPN



Executive
Science and Technology
Information Forum(NPO)

Rieko TAKAKI



GRADUATE SCHOOL OF
FRONTIER SCIENCES
THE UNIVERSITY OF TOKYO



EHS



IAEA
International Atomic Energy Agency



GSFS : Graduate School of Frontier Sciences
EHS : Division for Environment, Health and Safety
UTokyo : The University of Tokyo

Supported by



外務省

Ministry of Foreign Affairs of Japan



MEXT

MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN

TTWS2021  **JPN**