

IAEA International Workshop of Regional Training Course for Teachers to Introduce Nuclear Sciences in Secondary Schools through Innovative Approaches

TTWS2019

February 18 to March 1 (2019)
- Tokyo, Tokai, and Fukushima -

Hosted by



THE UNIVERSITY OF TOKYO

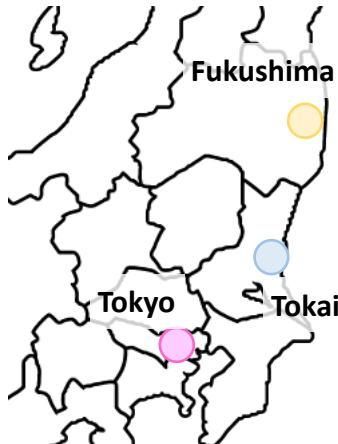
in cooperation with



国立研究開発法人
日本原子力研究開発機構
Japan Atomic Energy Agency



Akamon Gate



Yasuda Auditorium



WS Overview

Time	Sunday 17 Feb	Monday 18 Feb [1]	Tuesday 19 Feb [2]	Wednesday 20 Feb [3]	Thursday 21 Feb [4]	Friday 22 Feb [5]	Saturday 23 Feb [6]
AM	Arrival at Tokyo	-Opening(1,2) -Lecture(1) UTokyo	-Lecture(5,6) -Reporting UTokyo	-Greetings -Lecture (7,8,9) JAEA	-Visit (JAEA) JAEA	- Discussion - Reporting JAEA	-Lecture (12,13, S4) UTokyo
Lunch		UTokyo restaurant	Free	Bento	Bento	Bento	Bento
PM		-Visit (UTokyo) -Lecture (2,3,4) UTokyo		-Experiment (1a, 1b) JAEA	-Visit (JAEA) JAEA	-Lecture (10,11,S3) JAEA	-Experiment(2) -Lecture(14) -Reporting UTokyo
Night		Welcome Party	7pm, UTokyo to Tokai by bus	-Shopping to Mall by bus		Card-Game Competition (Applicants)	
Stay	(A) Hotel Forest Hongo	(A)	(B) JAEA or UTokyo Dormitory	(B)	(B)	(B)	(B)

Time	Sunday 24 Feb	Monday 25 Feb [7]	Tuesday 26 Feb [8]	Wednesday 27 Feb [9]	Thursday 28 Feb [10]	Friday 1 Mar [11]	Saturday 2 Mar			
AM	Free	7am, Tokai to Fukushima #1 NPP by bus	-Reporting -Making each education plan (Self-activity)	-Lecture (S1, S2) -Pedagogy 1 JAEA	-Pedagogy 3 JAEA	-Pedagogy 5 JAEA	Leaving Tokyo			
		-Visit (Fukushima#1 NPP) -Lecture(15) TEPCO								
Lunch		Bento						Bento	Bento	Bento
PM								-Pedagogy 2 JAEA	-Pedagogy 4 JAEA	-Pedagogy 6 -Conclusion JAEA
		4pm, JAEA to Iwaki by bus	3pm, Iwaki to Tokai by bus			4pm, Tokai to Hongo by bus				
Night		Hotel Buffet			Farewell Party	Free				
Stay	(B)	(C) Spa Resort Hawaiians	(B) JAEA or UTokyo Dormitory	(B)	(B)	(A) Hotel Forest Hongo				

	Opening	min	Lecturer
1	Overview of the IAEA RAS/0/079 on Educating Secondary Schools	20	Dr. Sabharwal (IAEA)
2	Outline of the Training Objectives for IAEA TTWS 2019 JPN	10	Prof. Iimoto (UTokyo)

	Lecture	min	Lecturer
1	Overview of Nuclear Applications	45	Dr. Sabharwal (IAEA)
2	Basics of Nuclear Physics	45	Ms. Katengeza (UTokyo)
3	Radiation Biology	45	MD, Dr. Fujii (NCC)
4	Radiation Measurement and Dosimetry	45	A-Prof. Wakabayashi (Kindai Univ.)
5	Social Viewpoint on Nuclear Application	45	A-Prof. Takashima (TUS)
6	Over all Review of Radiation Basics	60	Movie
7	Radiation Protection Concept	45	Prof. Iimoto (UTokyo)
8	Radioactive Waste Management	45	Dr. Maeda (UTokyo/JAEA)
9	Nuclear Non-Proliferation and Nuclear Safeguards	45	Dr. Rodriguez (JAEA)
10	Types of Nuclear Reactors and Their Safety & Security	45	Prof. Okamoto (UTokyo)
11	Types of Accelerators and Its Application	45	Prof. Uesaka (UTokyo)
12	Extracurricular Activities of Nuclear S&T	45	Ms. Makabe (JAERO)
13	Fukushima Daiichi NPP Accident and Way to Recovery	20	Movie
14	Radiation Education in Various Subject Classes	45	Prof. Yamaguchi (Fukushima Univ.)
15	Recent status of Fukushima Daiichi NPP and Future Scope	45	TEPCO
S1	Careers and Opportunities in Nuclear Science and Technology	20	Dr. Salame (IAEA)
S2	Expected National Implementation Strategy for the Envisaged	20	Dr. Salame (IAEA)
S3	Sustainability of HRD on Nuclear S&T and Its Motivation	45	Dr. Sabharwal (IAEA)
S4	Main Points and Future Scope on NS&T Secondary Education	45	Prof. Iimoto (UTokyo)
	Pedagogy 1-6	3 days	Mr. Irawan (BATAN/IDN) Ms. Pacheco (Dep Ed-NCR/PHL)

	Experiment	min	Lecturer
1a	Cloud Chamber Observation	60	Mr. Toda (RADO) Ms. Takaki (ECP)
1b	Shielding and Distance Experiments with Hand-made Air GM Tube	60	Team UTokyo
2	Natural Radiation Survey with KIND	90	Mr. Kakefu (JSF) Mr. Kato (JSF)












Dormitory (Hotel) Info.

(A) Hotel Forest Hongo (Bunkyo, Tokyo)	(B) JAEA or UTokyo Dormitory (Tokai, Ibaraki)	(C) Spa Resort Hawaiians (Iwaki, Fukushima)
https://www.forest-hongo.com/en/ Single No-smoking room	JAEA International Dormitory Single No-smoking room or UTokyo Dormitory Single No-smoking room	http://www.hawaiians.co.jp/images/pdf/pamphlet_eng.pdf Single Room (partly No smoking room)

Member of Team JAPAN

Takeshi IIMOTO (Leader)	Professor The University of Tokyo	Radiation Protection	PhD/Mr
Genichiro WAKABATASHI	Associate Professor Kindai University	Radiation Measurement	PhD/Mr
Hiroyuki IIZUKA	Project Specialist The University of Tokyo	Radiation Bioscience	PhD/Mr
Tomohisa KAKEFU	Manager Japan Science Foundation	Radiation Education	Mr
Takehiro TODA	Technical Developer RADO co.,ltd.	Cloud Chamber Development	Mr
Rieko TAKAKI (Secretariat)	Lecturer Energy Communication Planning	Energy Communication	Ms
Kayo MAKABE	Manager Japan Atomic Energy Relations Organization	Nuclear Outreach	Ms
Itaru TAKAHASHI	Lecturer Japan Atomic Energy Relations Organization	Nuclear Outreach	Mr
Takayuki KOASHI	Lecturer The Japan Atomic Power Company	Radioactive Waste Management	Mr

Supporting Organizations

Ministry of Foreign Affairs (MOFA)  外務省 Ministry of Foreign Affairs of Japan	Ministry of Education, Culture, Sports, Science and Technology (MEXT)  文部科学省 MINISTRY OF EDUCATION, CULTURE, SPORTS, SCIENCE AND TECHNOLOGY-JAPAN	
The University of Tokyo (UTokyo)  THE UNIVERSITY OF TOKYO	Scientific & Technology Information Forum (STIF)  STIF	
Japan Atomic Energy Agency (JAEA)  国立研究開発法人 日本原子力研究開発機構 Japan Atomic Energy Agency	Japan Nuclear Human Resource Development Network (JN-HRD Network)  JN-HRD.NET	
RADl of Japan Science Foundation (JSF)  Site to support education on radiation RADl	Japan Atomic Energy Relations Organization (JAERO)  一般財団法人 日本原子力文化財団	
CHIYODA TECHNOL COOPERATION  CHIYODA TECHNOL CORPORATION	Fuji Electric Co., Ltd  Fuji Electric	K C Consulting Co.,  K C consulting