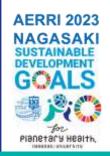


HYFLEX INTERNATIONAL EXCHANGE PROGRAM Transdisciplinary Summer School on the Environment

Faculty of Environmental Science, Nagasaki University

"Asian Environmental Resilience Research Initiative 2023"

Asian Environmental Resilience Research Center (AERRC)



About Summer School

Transdisciplinary Summer School on the Environment provides unique opportunities for undergraduate and master course students who wish to acquire knowledge and skills on environmental management and science for environmental conservation. The HyFlex Summer School consists of International Environmental Expert Seminar, Problem-Based Learning, and Internship at the Faculty of Environmental Science, Nagasaki University, Japan or via online linking with your own home and partner universities.

International Environmental Expert Seminar (IEES) & Problem-Based Learning (PBL) on the environment

July 3 – August 25, 2023

International Environmental Expert Seminar (IEES) provides multidisciplinary lectures with topics ranging from Japanese environmental management policies to the science and technology for the environmental issues. Problem-Based Learning (PBL) includes group discussions, local field trips, and group presentations on environmental problems of students' home countries. Students will receive 2 credits on the completion on the IEES and PBL.

Laboratory Internship & Young Researcher Training by Asian Environmental Resilience Research Center (AERRC) July 18- August 21, 2023

Laboratory internship opportunities are hosted by our faculty members with expertise ranging from social science to natural science. Laboratory work includes analytical/green chemistry, toxicology, solid waste management, physiology, bioengineering, geology, phycology, conservation ecology, environmental law, economics, sociology, international relations, management and planning. Please visit our website (http://www.env.nagasaki-u.ac.jp/english/members.html) for available options.

AERRC provides training program for young researchers to promote transdisciplinary environmental research for SDGs.

July Mor Tue Thu Sat First half of IEES (on-demand classes of four key topics in environmental science) 1st week Orientation History of Industrial Pollution in Japan (Dr. TOMOZAWA, Yuuki) & Introduction to Animal Law for Animal Welfare and SDGs (Dr. HONJO, Moe) (Online) Opening remarks Can You Measure the Weight of a Molecule? (Dr. TAKAO, Yuji) & Clouds and Climate (Dr. KAWAMOTO, Kazuaki) 10 11 14 15 July Mor Tue Wed Thu Sat First half of IEES (continued) 2nd week PBL progress check (Online) 18 19 20 21 22 July Thu Mon Tue Arrival at Nagasaki Laboratory Internship & 3rd week (Japanese Holiday: Young Researcher Training Nagasaki History Museum (HyFlex) Marine day) (1st round) 24 27 28 25 26 29 July Mon Tue Laboratory Internship & 4th week PBL progress check Young Researcher Training (HyFlex) (2nd round) 31 3 5 2 **August** Thu Tue Laboratory Internship & 5th week PBL progress check Young Researcher Training (HyFlex) (3rd round) 10 11 12 8 **August** Thu Tue Self study 6th week **Preparing Laboratory Preparing PBL** PBL progress check Peace study (Japanese Holiday: Self study (HyFlex) Internship presentation presentation & abstract Mountain day) 14 15 16 18 **August** Mon Tue Thu Sat Second half of IEES (face-to-face classes) Shimabara Peninsula 7th week Self study Self study Self study (Dr. TOMOZAWA, Y. & Dr. HONJO, M.) (Dr. UMAKOSHI, Kodo & (NU's Summer Closure) (NU's Summer Closure) (NU's Summer Closure) (HyFlex) (Dr. TAKAO, Y. & Dr. KAWAMOTO, K.) Dr. WATANABE. Takashi) 22 23 21 26 **August** Mon Tue Wed Thu Fri Sat 8th week Internship presentation **PBL** presentation **Submit PBL abstract Closing remarks** Preparing return trip (HyFlex) & PBL progress check & Discussion

IEES Lecturers in AERRI 2023



Transdisciplinary Summer School on the Environment (Asian Environmental Resilience Research Initiative 2023) International Environmental Expert Seminar



Assoc. Prof. Dr. Yuuki TOMOZAWA

Environmental Sociology Laboratory, Department of Environmental Science, Graduate School of Fisheries and Environmental Sciences, Nagasaki University

"History of Industrial Pollution in Japan"

Japan's rapid modernization in the 19th and 20th centuries was built on a number of serious pollution incidents at home and abroad. This lecture will present the history of pollution in Japan and the experiences of people's struggles to overcome both pollution and social injustices.



Prof. Dr. Yuji TAKAO

Environmental Chemical micro-analysis Laboratory, Department of Environmental Science, Graduate School of Fisheries and Environmental Sciences, Nagasaki University

"Can you measure the weight of a molecule?"

In recent years, mass detectors have been widely used in environmental analysis. You will learn the principles of this detector and deepen your understanding of its advantages, disadvantages, and environmental applications.



Assoc. Prof. Dr. Moe HONJO

Animal Law Laboratory, Department of Environmental Science, Graduate School of Fisheries and Environmental Sciences, Nagasaki University

"Introduction to Animal Law for Animal Welfare and SDGs"

Recent global developments in animal welfare law are remarkable. In the lecture, basic concepts regarding animal law and comparative study of animal law will be discussed.



Prof. Dr. Kazuaki Kawamoto

Satellite Climatology Laboratory, Department of Environmental Science, Graduate School of Fisheries and Environmental Sciences, Nagasaki University

"Clouds and Climate"

Clouds occupy about 60% of the earth's surface and play a crucial role for formation of the climate via dynamical, hydrological and radiative processes. In this lecture, the relationship between clouds and climate will be described mainly by observed data.



Host Professors of Laboratory Internship in AERRI 2023

Laboratory information is as of 1^{st} February 2023. Please check the latest information at our web page using the QR code.



Environmental Policy		Science & Technology	
Prof. Aiko ENDO (Water-Energy-Food Nexus)	Assoc. Prof. Masahiko OTA (Natural Resource Management)	Prof. Hiroshi ASAKURA (Solid Waste and Resource Engineering)	Assoc. Prof. Tomoki NAKAYAMA (Atmospheric Environmental Science)
Assoc. Prof. Satoshi FUKAMI (Tourism and Environmental Education)	Assoc. Prof. Yoko SEKI (Environmental Philosophy)	Prof. Kei'ichiro IGUCHI (Conservation Ecology)	Prof. Masaya NISHIYAMA (Soil Science)
Prof. Seiko GOTO (Landscape Architecture)	Assoc. Prof. Yosuke SHIGETOMI (Environmental System)	Assoc. Prof. Masafumi IIMA (Phycology)	Prof. Jiro OKADA (Neuroethology and Ecotoxicology)
Assoc. Prof. Hironori HAMASAKI (Environmental Governance)	Assoc. Prof. Sunhee SUK (Environmental Business and Management)	Assoc. Prof. Makoto KAGABU (Environmental Water Science)	Assoc. Prof. Seiji SHIRAKAWA (Green Chemistry)
Assoc. Prof. Mitsuru HATTORI (Evolutionary Ecology)	Assoc. Prof. Takayuki TAKESHITA (Energy, Environmental, and Economic Systems Analysis)	Prof. Kazuaki KAWAMOTO (Satellite Climatology)	Prof. Yuji TAKAO (Environmental Analytical Chemistry)
Assoc. Prof. Moe HONJO (Animal Law and Policy)	Assoc. Prof. Yuuki TOMOZAWA (History of Environmental Philosophy in Japan)	Assist. Prof. Takashi KUBO (Environmental Safety Science)	Assoc. Prof. Hiroyuki TAKASU (Biogeochemistry and Marine Environmental Science)
Prof. Kensuke KATAYAMA (Urban and Regional Planning)	Assoc. Prof. Yoko WADACHI (Environmental Politics)	Prof. Tetsuji MUTO (Morphodynamics and Stratigraphy)	Assoc. Prof. Akira TOMIZUKA (Environmental Physics and Simulation)
Prof. Hidehiro KIKUCHI (Environmental Law and Policy)	Prof. Takashi WATANABE (Landscape and Regional Planning)	Prof. Masaki NAGAE (Environmental Toxicology)	Prof. Kodo UMAKOSHI (Seismology and Volcanology)
Assoc. Prof. Satoru KURODA (Environmental and Regional Sociology)	Assoc. Prof. Yuki YAMAMOTO (Environmental Economics)	Prof. Kei NAKAGAWA (Environmental Groundwater Science)	Assoc. Prof. Masahiro YAMAGUCHI (Plant and Atmospheric Environment)
Prof. Hirohiko NISHIKUBO (Environmental Law and Policy)	Assoc. Prof. Mamoru YOSHIDA (Environmental Planning and Disaster Risk Management)	Prof. Hideki NAKAYAMA (Environmental Bioengineering)	Prof. Noriyuki YAMAGUCHI (Animal Ecology)

Nagasaki University Area Map

About the Nagasaki City

Population

The population of Nagasaki city is about 410,000.

Environment

A centralized city that has a mix of the ocean, mountains, and a downtown area.

■・止・無能能データになったコレイヤトを発です。

Cultural heritage

8 of the locations listed under UNESCO's "Sites of Japan's Meij Industrial Revolution." (明日本の高原本の協議会の協立として中人の日野協議に登録された情報議議の長時になるつかります。

History

Nagasaki city has a culture of its own, one that is a mixture of Western, Chinese and traditional Japanese culture.

美術は掲載、中国、そして日本の文化が融合している歴史的な 町です。

The tram that will make your transportation around the city much easier. 経営理事で長崎内内を保険に流れます。

About Nagasaki

Nagasaki is a very unique city where you can enjoy nature, historical sites and urban area at the same time. While you live in Nagasaki city, you can enjoy shopping, hiking, and going to beaches.

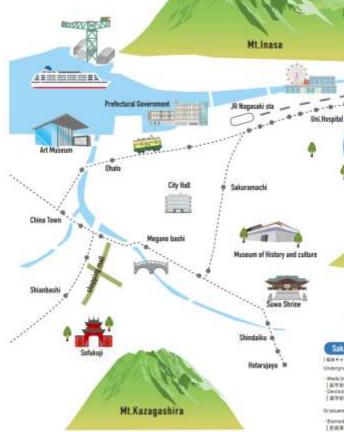
You don't want to miss the breathtaking night view of Nagasaki city that has been recognized as one of the "New Three Great Night Views of the World,"

長崎は、自然と史跡、市街地を同時に楽しめるユニークな街です。市内に住 みながら、ショッピングやハイキング、夏にはビーチを楽しめます。 また、長崎は「新世界三大夜景」に選ばれた街でもあります。長崎の夜景は見

Climate ***

Enjoy the beauty of all four seasons in Nagasakil 長崎では、日本独特のはっきりとした四季を楽しめます。

Season pop	Climate stat	What you can enjoy Mis	
Spring a	About 20°C. Moderate. Comfortable weather.	Flower viewing, Hanamil	
March to May 3~5 A	約20年、最くもなく寒くもなく ちょうど扱い季酸。	花見を乗しめます。	
Summer June to August A-8 Fl	About 32°C. Hot and humid. Rainy season in July.	Beautiful beaches.	
	約32億.暑くて湿度が高いです。 で対は預期に入ります。	楽しいピーチが多くあります。	
Fall tx September	About 23°C. Moderate. Comfortable weather,	A huge festival called Kunchi which Nagasaki resident are passionate about.	
to November 9—11 /f	約23度、最くもなく悪くもなく ちょうど良い季節。	長崎市民が毎年心持ちにしている。長崎 で一番大きな祭り、(んちがあります。	
Winter & December	About 8°C. Very dry.	Occasionally snow flurries without heavy snow.	
to February 122-7	約3度、空気がとても転換します。	大調にはなりません。たまに降る猫の美 しさを楽しめます。	



Bunkyo Campus

Nishierakami sta

Bunkyo Campus

Undergraduate Schools (# €

Gabel Hamastine and Social Scientific [多文化社会学展] Adormacion aratilata Sciences [集報子—計算部]

Enghwertry [= TH | Division restal Science (根据科学社)

Graduate School 2,798

Education | Immediately | Pharmicoutical S 画学 (申士的報)

Engineeting 工事研修科1 Faterins and Environmental Sci [水直-環境科学報告研究科]

Cost of Living

12 eggs (large)

at supermarket

¥500-¥1,500 ランチメニュー(飲み物会む) Combo meal in fast food restaurant ¥700 ファストフード店でのセットメニュー

1 litter of whole fat milk ¥150~¥210 中期(1.4)

¥150~¥220 A bottle of mineral water (500 ml)

at supermarket ¥70~¥150 A bottle of mineral water (2L) ¥120~¥200

A cup of coffee at a café ¥350-¥500

A movie ticket(student) ¥1,500 映画テケット(学生製引)











Economics [46,59 et]

Undergraduate School (#8)

Mt. Konpira

Nagasaki University

Graduate Schools | A/WIII

Serredical Sciences 1 Birls RT40 (HPRN) Pharmacoutical Science District Council [第字 (時主接別] Triples Motore and Gobal Teast) [数等数字・タン・シャールを研究員]







Piela trips

Message



Come and learn about environmental policy and technology in Japan

Dean, Prof. OKADA, Jiro

Faculty of Environmental Science was established in 1997 to solve emerging global and regional environmental problems. Our education and research aim is to train prospective students as environmental professionals in a transdisciplinary environment to serve for the benefit of the global society. We welcome all of you to Nagasaki University to share this excellent opportunity during this summer.



2022 na

2022 participants' feedback

Best academic experiences ever

Mr. BOONCHAISEREE, Nutchanon Mahidol University, Thailand

The Summer School Program is an eye-opening experience for me, this program allows me to make new friends from different countries, while also study under the professors during the internship period. This is one of the best academic events that I ever participated in my life. The three weeks internship period is the time of learning with the professors of my choosing in the field of study that I am interested in. And the result of the internship is fruitful, I have gained more new knowledge and learned about the topic and field that I am interest in, and this help me in determining the path of my future.



An amazing 10 weeks in Nagasaki University!

Ms. TURNER, Jasmine Emma Lancaster University, United Kingdom

This programme has exceeded any and every expectation I had. I have learnt a lot about my field of interest that will help me a lot in my studies, but it never felt like work, especially due to my host professors. I learnt a lot and had proper hands on experience that I wouldn't have been able to get at a larger corporate internship. When we weren't working, I spent a lot of time exploring Nagasaki and Kyushu with my new friends. I cannot thank them enough for taking care of us and excited to stay in touch. Although I was also nervous about spending 10 weeks away in Japan, the time has gone by so quickly and every moment has been special.









Memorial photos





Participants of the Transdisciplinary Summer School on the Environment (AERRI 2022)

How to apply

Please contact International Exchange Office of your university. Students from universities holding MOU with Nagasaki University are waived from tuition and fees.

Participants are responsible for their cost of travel and accommodation.

Limited scholarships are available.

Enquiries

International Exchange Committee, Faculty of Environmental Science, Nagasaki University

1-14 Bunkyo-machi, Nagasaki-shi, Nagasaki 852-8521, Japan

Phone: +81-(0)95-819-2715

E-mail: env_international@ml.nagasaki-u.ac.jp URL: http://www.env.nagasaki-u.ac.jp/english/

Access to Nagasaki University



From Fukuoka International Airport
2 hours by highway express bus to Nagasaki

From Nagasaki Airport

50 minutes by limousine bus via Showa-machi

From JR Nagasaki Station

20 minutes by tram #1, 2 & 3 towards Akasako



Faculty of Environmental Science, Nagasaki University 1-14 Bunkyo-machi, Nagasaki-shi, Nagasaki 852-8521, Japan Tel. +81-(0)95-819-2715 Fax. +81-(0)95-819-2716