

Summer Session 2024 - Global Sustainability Outlook and Practice in Japan



Professor Guangwei Huang Ph.D.

Main research fields: Lake and river water quality monitoring and modeling; sustainable use of wetland; urban flood risk management and long-term environmental policy impact assessment

Research: He deals with environmental problems in various approaches from field survey, numerical modeling and laboratory experiment. His research strategy is a good combination of "seeds" and "needs".

Courses Taught: Environmental Assessment, Environmental Planning, Global Environmental Outlook.



Professor Akemi Ori Ph.D. (Law)

Main Research Field: Environmental Risks and its Management, Environmental Law, Chemical Management Policy, Waste Management Policy

Research: After taking Ph. D, I was involved in the field of chemical management policy through work on amendments on the Chemical Substances Control Law and the PRTR Act. During deliberations on the bills, I conducted research on how to incorporate international risk management policy in Japanese chemical risk management policy, still continuing research in this area. At the same time, I was keen on the importance of capacity-building of Asian Waste Management Policy. When thinking of Japanese Environmental Waste Management Policy, we could not forget the idea that Japan is the part of the ASEAN Region. This point of view I believe sharing information about ASEAN Environmental Risk and sharing Japan's successes experience how we overcome serious environmental pollution will be useful. I want to be continuing more detail research on this area.

Courses taught: Japanese Environmental Law, Recycling System in Asia



Professor Joho Joseph Puthenkalam Ph.D. (Economics)

Main Research Field: Development and Environment <Economic Development and Environmental Protection in Developing Countries>

Research: To study the coexistence of sustainable environment and economic development from the perspective of developing countries, premised on human dignity, human rights, rights of the poor, and true globalization.

Courses Taught: Economic Development and Environment, International Environment Document Study, Environment and Development of Developing Countries



Professor Anne McDonald

Main Research Fields: Environmental History, Global Environmental Policy

Research: With a mandate to link research to policy development and implementation, works closely with researchers involved in ecosystem assessments, local and national policy makers and UN conventions related to the environment. Working with the Secretariat of the Convention on Biological Diversity on marine related issues, at COP10 Nagoya 2010 co-established the Sustainable Ocean Initiative, an interface between science and policy to strengthen the marine biodiversity elements of the convention.

Courses Taught: Environmental History, Integrative Environmental Policy, Global Environmental Policy

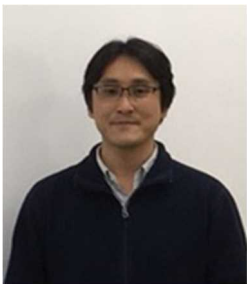


Professor Masachika Suzuki

Main Research Fields: Corporate Environmental Strategy and Clean Energy Strategy

Research: Corporate environmental and energy strategy, Technology transfer and innovation in clean energy, Effectiveness of economic policy instruments, Environmental and social indicators for sustainable development, Strategic alliance for establishing a sustainable community in Asia

Courses taught: Business Strategies for Sustainability, International Environmental Treaties, Energy and Environmental Technology



Professor Takahiro Tsuge

Main Research Field: Environmental Economics

Research: Environmental Economics: Development of methods for assessing the economic value of the environment and empirical research using those methods.

Courses taught: Environmental Economics, Economic Valuation of the Natural Environment



Professor Anno Sumiko Ph.D. (Medicine)

Main research areas: Environmental Health, Public Health, Spatial Information Science

Research: GIS will be applied to the assessment of human health impacts as they are affected by the natural alterations associated with urban development on a regional scale. Moreover, we will actively engage in the applications of remote sensing and deep learning, which are expected to contribute to solving global environmental issues

Courses Taught: Environmental Science of Human Health, Public Health and Environment, Seminar



Professor Xuepeng Qian Ph.D. (Engineering)

Main research fields: urban and regional planning, environmental and social system analysis, industrial ecology, sustainability science

Research: Dr. Qian specializes in urban environmental planning. He has been working on urban and environmental issues such as urban development, transportation, resource sustainability, water, energy, and low carbon, through interdisciplinary and systems approaches. His research interests are focused on exploring the visions of urban and regional sustainability and how to plan and promote transformations for sustainable development.

Courses Taught: Industrial Ecology, Urban Sustainability, Seminar A/B/C/D



Haemi Park Assistant Professor, Ph.D. (Engineering)

Main research areas: Environmental Remote Sensing, Forest Ecosystem, Fire Detection, Soil Moisture

Research: Terrestrial ecosystem and its spatiotemporal change monitoring by satellite imagery. Assessment of human impact to environment and climate. Nature and human interactions in terms of climate change.

Courses taught: Environmental Remote Sensing, Forest and Human Interactions, Seminar A/B/C/D.



Yoshinori Nakagawa

Professor, Ph.D.

Main research areas: Participatory visioning; Future Design; Qualitative research

Research: methodology to support governments, the general public, university researchers, private companies, and others who design the world from a long-term perspective, while further enhancing their creativity and empathy for future generations.

Courses taught: STATISTICS FOR ENVIRONMENTAL STUDIES, STATISTICS FOR ENVIRONMENTAL STUDIES, RESEARCH METHODS FOR SOCIO-ECOLOGICAL STUDIES, Design FOR SUSTAINABLE SOCIETIES, Seminar A/B/C/D



Prof. Koki Toyoda

Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology

Main research fields: Life Science, Plant nutrition and Soil Science

Research: Priming effects induced by C and N additions in relation to microbial biomass turnover in Japanese forest soils. Development and application of a DNA metabarcoding method for comprehensive analysis of soil nematode communities.

Course taught: Soil Science



Prof. Yoshinari Tanaka

Main research fields: Ecological risk assessment of human-induced factors

Research: Development of a comprehensive ecological risk assessment system of chemicals based on the tri-trophic ecosystem model

Course taught: Ecology and the Environment, Chemical Substances and the Environment



Dr. Edyta Dzieminska, Associate Professor, Faculty of Science and Technology

Main research areas: Supersonic combustion, rotating detonation engine

Research: Development of rotating detonation engine for space propulsions, detonation safety, mitigation of detonation

Courses Taught: Numerical Analysis, Advanced Fluid Engineering, Aircraft Design with Mechanics of Flight, Topics of Green Engineering, Basic Physics, Experiments of Exercise of Basic Physics, Engineering and Applied Sciences Lab, Introduction of Science and Technology, Science Technology and Environment.