

Staff Index

Doctoral Program in Appropriate Technology and Sciences for Sustainable Development,
Graduate School of Life and Environmental Sciences,
University of Tsukuba

* Profiles as of April 1, 2015.

Ecoregion Development Engineering

Arid Land Engineering

ADACHI Yasuhisa
Professor

Fundamental and application of colloid and interface sciences in soil and water



Arid Land Engineering

IRIE Mitsuteru
Associate Professor

Sustainable water resource management in arid land



Productive Land System

KOBAYASHI Motoyoshi
Associate Professor

We focus on the development of "Environmental and Colloidal Engineering" for the sustainability of soil and water environments



Productive Land System

YAMASHITA Yuji
Assistant Professor

Transport and interfacial phenomena in soil; Interaction between clay minerals and humic substances



Ecosystem Structure Engineering

HOTTA Norifumi
Associate Professor

Hydrology and sediment dynamics in forested watershed
Mechanics of debris flow



Ecosystem Structure Engineering

YAMAKAWA Yosuke
Assistant Professor

Hydrology in mountain catchments and development of survey techniques for hydrological properties



Watershed Conservation

MIYAMOTO Kuniaki
Professor

Mechanism of sediment production and transport
Sabo planning in harmony with natural environment
Watershed management planning
Planning and management of protected areas such as national parks and world heritage sites



Watershed Conservation

NASAHARA (NISHIDA) Kenlo
Associate Professor

Environmental monitoring and monitoring with satellite remote sensing



Water Resource Management and Engineering

ISHII Astushi
Professor

1) Participatory irrigation management,
2) Water right systems
3) Land consolidation project for efficient use of surface water resources



Water Resource Management and Engineering

TANIGUCHI Tomoyuki
Assistant Professor

Water use and management on rural area



Bioproduction and Machinery

TAKIGAWA Tomohiro
Professor

Development of an Asian tractor
Agricultural mechanization in the tropics
Engineering alleviation of soil compaction



Bioproduction and Machinery

Tofael Ahamed
Associate Professor

Remote Sensing Systems for Crop Monitoring and Development of Agricultural Machinery



Bioproduction and Machinery

NOGUCHI Ryoza
Associate Professor

System Analysis for Biomass Energy Utilization, Development of Innovative Power Unit for Agricultural Machinery



Bioproduction and Machinery

GENKAWA Takuma
Assistant Professor

Nondestructive Evaluation Technology for Postharvest Process



Protected Area Management

ITO Taiichi
Professor

Wildland Planning
Protected Area Management
Environmental Planning and History



Protected Area Management

SAKATA Keisuke
Associate Professor

Wildlife management with focus on human-wildlife interface



Cooperative Graduate School System Rural Environment Improvement

TARUYA Hiroyuki
Professor

Hydraulic diagnosis of irrigation and drainage facilities in rural area
Hydraulic strengthening and renewal of irrigation and drainage flow network



Cooperative Graduate School System Rural Environment Improvement

MASUMOTO Takao
Professor

Hydrological and environmental analyses for rural areas
Interaction between flood and agricultural water use



Food and Biomass Sciences

Bioresource Technology Development

NAKAJIMA Mitsutoshi
Professor

Microtechnology for new food processing and functional food



Bioresource Technology Development

Marcos Antonio das NEVES
Assistant Professor

Development of advanced processing technology for the effective use of biological resources based on micro- / nano-engineering. Functional foods, unused food resources



Sciences for Food Functions

MIYAZAKI Hitoshi
Professor

1) Prevention and improvement of metabolic syndrome using food-derived functional compounds.
2) Prevention and improvement of stress-induced sterility of human and livestock using food-derived functional compounds.



Chemistry of Bio-Materials

OHI Hiroshi
Professor



Innovation of lignocellulose chemical pulping and non-chlorine bleaching
Characterization, reactivity and utilization of lignins
Production system of forest products, pulp and paper

Chemistry of Bio-Materials

NAKAGAWA-IZUMI Akiko
Associate Professor



Characterization of chemical components of biomaterials for biorefinery

Engineering of Bio-Materials

ENOMAE Toshiharu
Professor



Paper-based electronics such as sensors and power generators
Bacterial culture system by paper and printing
Paper conservation science for cultural heritage, documents and books
Paper and electronic media collaboration in child education

Engineering of Bio-Materials

OBATAYA Eiichi
Associate Professor



Property enhancement of wood by chemical modification
Material engineering for musical instruments
Safety of housing materials

Engineering of Bio-Materials

KAJIYAMA Mikio
Associate Professor



Synthetic study on material science
Synthesis and properties of hybrid polymers

Agri-Food Process Engineering

KITAMURA Yutaka
Professor



Food production and biomass conversion with biological and physico-chemical processes such as wet milling, spray drying, fermentation, enzymatic reaction, extraction, etc.

Cooperative Graduate School System Sustainability of Biomass Resources

KOSUGI Akihiko
Professor



Development of biomass utilization technology using microbial function

Cooperative Graduate School System Instrumentation and Information Engineering

SUGIYAMA Junichi
Professor



Development of instrumentation technology for food and agricultural products
Development of DGC (Direct Gel Conversion) technology in food industry and agriculture

Cooperative Graduate School System Regional Forest Resource Development

YAMADA Tatsuhiko
Professor



Development of lignin based functional bio-materials
Rapid analysis of lignocelluloses to evaluate potential of forest biomass

Cooperative Graduate School System Nano and micro-scale food analysis

TODORIKI Setsuko
Professor



Microbial control of food with ionizing radiation and evaluation of food qualities after irradiation

Cooperative graduate school system

The faculty of DATSD consists of members who are active at the forefront of the academic world in and outside Japan. They carry out pioneering studies in their fields. To provide further substantial research environment, a cooperative graduate school system is implemented.

Top-ranking researchers in research institutes in Tsukuba Science City are invited as professors and associate professors. They guide students at the research institutes by making use of the superb research environment and latest research facilities and functions.



Rural Development Economics

Agricultural and Bioresource Economics

SHIGENO Ryuichi
Professor



Recent work focuses on food consumption and related industries, with specific attention to issues of health, food security and behavioral economics.

Agricultural and Bioresource Economics

SHUTO Hisato
Associate Professor



1. Analysis on impact evaluation of food security policy
2. Trade structure analysis

Resource Management and Development Studies

MATUSHITA Shusuke
Professor



1. Development of Decision Support System for Farm Management Agency
2. Analysis of Risk Management and Consumers' Behavior on Agricultural Products and Food
3. The Possibility and Extension of Smart Agriculture for Farm Management and Food Distribution System

Resource Management and Development Studies

Lurhathaiopath Puangkaew
Assistant Professor



1. Food consumption analysis
2. Agricultural reconstruction after the Great East Japan Earthquake
3. Development of radioactive substances monitor system in contaminated areas
4. Consumer survey approach to reputation-based damage

Farm Business and Agribusiness Management

NOHGUCHI Ruriko
Professor



1. Study on operation systems and management of agricultural corporation, and corporate entry into farming
2. Study on management activities of women in farm villages

Farm Business and Agribusiness Management

UJIE Kiyokazu
Associate Professor



1. Quantitative analysis of changes in consumers' behaviors after food safety incidents
2. Altruism of consumers and its relationship with food consumption
3. Food consumption analysis based on heterogeneity of consumers

Farm Business and Agribusiness Management

FUKUDA Yusuke
Lecturer



1. Study on deployment process of agrarian reform
2. Study on agricultural cooperative and agricultural organization
3. Study on agricultural land commission

Rural Sociology and Agricultural History

KATOH Morihiro
Professor



1. Early modern, modern and contemporary history of agriculture and farm villages in Japan
2. Historical investigation of a community type seen in the northeastern area of Japan
3. Study on reconstruction of contemporary farming community

Rural Sociology and Agricultural History

YUZAWA Noriko
Associate Professor



1. Life and economic historic studies on industrial area formation
2. Historic and geographical studies on local economic development
3. Sociologic study on female, family and region

Forest Resource Economics

MASUDA Misa
Professor



1. Dissemination and acceptance processes of the national forest management system born in India
 - Junction of regional conditions and the forestry system during the colonial period
 - Policies and plans based on natural and historical backgrounds
2. Interpretation of traditional social system in the tropics and assessment of regional resource control system

Forest Resource Economics

TACHIBANA Satoshi
Associate Professor



- Study on
1. Sustainable forest management: zoning, forest owners' behavior, cost benefit analysis of forestry practice, and forest certification scheme
 2. Global and regional wood products markets and simulation analysis of wood products' demand and supply
 3. Behavior of wood manufacturing enterprises and suitable location of timber industry

Forest Resources Sociology

SHIGA Kazuhito
Professor



Forest environment policies of local governments, forest management organization, forest authentication, comparative study of forest management between Japan and German-speaking countries, study on construction of forest resource management theory

Forest Resources Sociology

KOHROKI Katsuhisa
Associate Professor



Study on family-owned forestry, forestry labor, and problems of mountain villages

Cooperative Graduate School System Rural Development Study

FURUYA Jun
Associate Professor



Assessment of the effects of climate changes on producers of farm products and markets in developing countries via field survey and demand-supply model analysis

Cooperative Graduate School System Regional Forest Resource Development Study

HIRANO Yuichiro
Associate Professor



1. Understanding the historical and political process of regional forest resources
2. Arousal of conflict of interest concerning forest resources and verification of settlement method