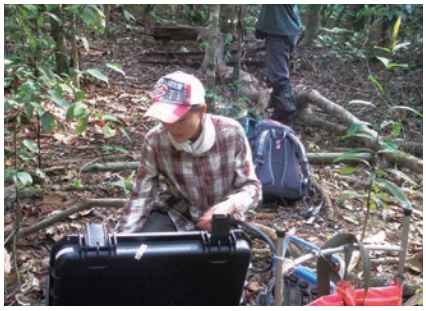
Environmental Sciences

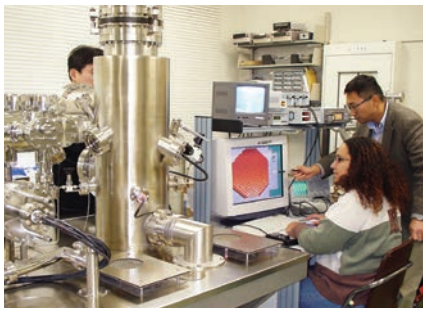
The division of Environmental Sciences studies the natural and social environments, and material and information sciences to understand our living "environment" by means of "Integrated Arts and Sciences." In this division, we explore how the environment has been shaped by natural and anthropogenic impacts as well as the question how we would mitigate these impacts on environments by way of a comprehensive examination of the various risks faced by our modern society.

Natural Environmental Sciences

We consume a large amount of natural resources, while continuing to discharge waste. This lifestyle gave strongly impacts on the natural environment, causing global environmental issues. To deal with them, we have to understand the various phenomena on the earth relating to biotic and abiotic environments and anthropogenic impacts on them. This will allow us to foresee the future state of the environment. Finally we aim at evaluating and foreseeing the various effects resulting from human activities on environments, as well as recommending the best specific measures to realize a truly rich environment for human society.



A CO^2 flux measurement
in a tropical rain forest in Malaysia



Observation of the surface atoms of strongly correlated electron systems substance using a scanning tunneling microscope

Integrated Physical Sciences

Physics in the future requires interdisciplinary and comprehensive approaches that transcend the existing domains of learning. In this connection, we pursue the laws and order of physical phenomena in which matters of complex and correlated systems are involved from a perspective of comprehensive natural science on the basis of the techniques of modern physics. We pursue education and research intended to seek solutions to complicated correlated topics belonging to such fields as energy consuming and environment protection, through the creation of new substances, concepts, and technologies.

Information and Media Sciences

Professors in the Information and Media Sciences explore the world around us with the help of rapidly developing information and communication and computing technologies. The research domain that we cover includes such various aspects as network architecture, cloud computing, information security, media communication (e.g., video coding, image/video processing and content management), numerical simulations based on elementary particle theory, educational technology, and information education. Students can decide on whether to master multiple domains, concentrate on a single domain in depth, or pioneer new areas. We welcome students with open and curious minds to join us in our endeavors.

Experiment in Digital Signage

Workshop involving a walk with the local population to explore the local environment

Social Environmental Studies

In this field, we aspire to explore the social environment in which we live, investigating both the relationships between the natural environment and human activities and the actual state of the social environment and its problems arising from relationship among people. The field is comprised of the two following specialties: Studies of Regional Environment, and Studies of Modern Society. The former specialty focuses on areas which are local and pragmatic environments. Education and research is conducted, using concepts such as circulation-oriented society, sustainable society, and Non-Profit Organizations. The latter deals with the environment in its broader sense and education and research is carried out from the perspective of the social sciences such as social dynamics, social strata, welfare society, the global economy, and industrial systems.