Scientific Knowledge Creation based on Research Philosophy

Leader: Nobuhiko Yui (Professor, School of Materials Science)

Activities

We explore the Research Philosophies of creative researchers, and the Culture of creative laboratories.

1. “YUI” Colloquium (Forum)

Promote intercultural communication between faculty members and students, in the Materials Science field and the Knowledge Science field, and promote ties with the business community, with the goal of publishing a revised edition of “Research Philosophy”

- Reflect experiences about research activities and explore significant meanings of experiences.
- Find relationships between sensibility of researchers and creativity.
- Discuss research philosophy and educational methods in order to promote creative research.

2 Research on Development Processes and Motivation of Researchers

- Find differences in motivation between Japanese students and foreign students at Japan Advanced Institute of Science and Technology.
- Explore developmental processes and developmental changes in motivation of creative researchers, based on the Japanese traditional concept: “Shu-ha-ri.”

3 Research on Organizational Knowledge Creation in Academic Laboratories

- Find features of culture and management style in creative academic laboratories through observing research and educational activities directly.
- Explore interactions between researchers and the culture of laboratories from the viewpoint of organizational knowledge creation theory.

Members

Goro Mizutani (Professor, School of Materials Science)
Takuya Honda (Professor, School of Knowledge Science)
Hiroyuki Tsuruoka (Researcher, Center for Strategic Development of Science and Technology)
Takashi Yoshinaga (Researcher, Center for Strategic Development of Science and Technology)
Kitsakorn Locharoenrat (RA Doctoral Course Student, School of Materials Science)