

< Name of Institution >

Science Field, Graduate School of Science and Engineering, Tokyo Institute of Technology

< Project Title >

Japan-Europe-US International Training Program for Young Generation in Molecular Materials Science for Development of Molecular Devices

< Project Outline >

Molecular material is widely seen as a candidate for use in future electronic devices. Because of the inherent characteristics of molecules, molecular devices can perform highly sensitive, dense and/or ultra-fast functions that semi-conducting materials cannot. To further investigate those molecular materials, based on the achievements of the previous collaborative works between Japan and France, we start a new project, "Japan-Europe-US International Training Program" (ITP). In this project, we enlarge the international research interaction to four countries including US (National High Magnetic Field Laboratory) and UK (Durham university) which had also played important roles in this research field, and start intensive studies of the molecular materials, especially through the aggressive exchange of young researchers including doctoral course students. The applied project is composed of the following 4 groups, (1)Material design, (2)Measurement in an extreme environment, (3)Ultrafast snapshot and (4)Device application. We accelerate the research interactions among those four countries and perform the international education for young researchers in the four fields, to develop the study of the molecular materials.

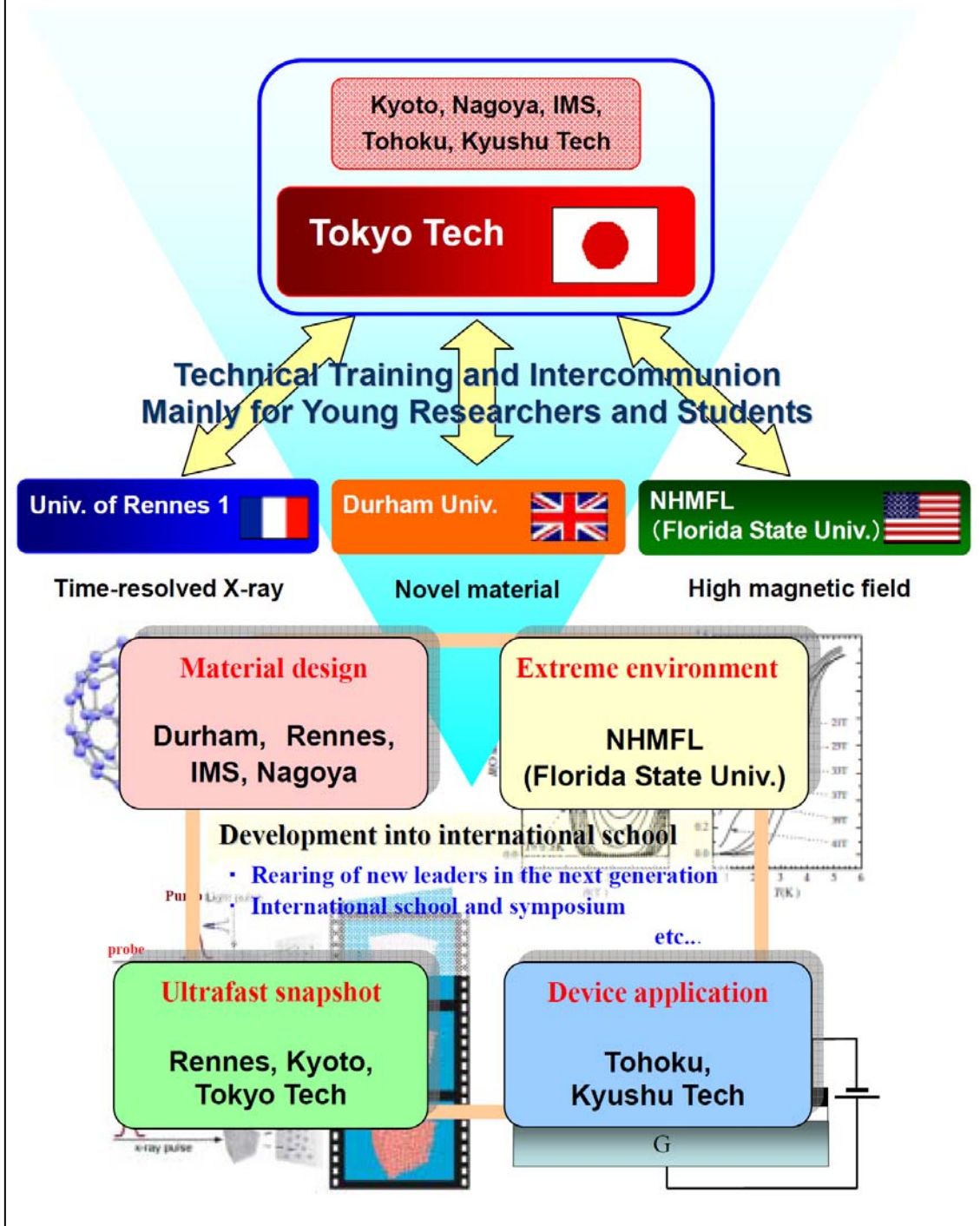
< Domestic Partner Institutions >

- Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University
- Graduate School of Science, Nagoya University
- Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology
- Institute for Molecular Science (IMS), National Institutes of Natural Sciences
- Institute for Materials Research (IMR), Tohoku University

< Overseas Partner Institutions >

- Laboratory for Organometallics and Molecular Materials, University of Rennes 1, Rennes, France
- National High Magnetic Field Laboratory (NHMFL), Florida State University, Florida, USA
- Department of Chemistry, Durham University, Durham, UK

< Conceptual Scheme of the Project >



< Contact >

Dr. Toshiaki Enoki, Professor, Graduate School of Science and Engineering,
Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8551
Tel/ Fax : +81-(0)3-5734-2242 E-mail: tenoki@chem. (Please add "titech.ac.jp" after "chem.")