

COLLABORATION PROGRAMS

(a) IMS International Program

IMS has accepted many foreign scientists and held many international conferences since its foundation and is now universally recognized as the institute open for foreign countries. In 2004, IMS has started a new program to promote further the international collaborations. In this new program, the faculty members of IMS can propose (1) the short-term invitation of senior foreign scientists, (2) the long-term stay of young scientists and (3) their oversea visits to carry out the international collaborations.

Leader	Title	Partner
URISU, Tsuneo	Integration of Biological Signal Transducing System on the Si Substrate and Molecular-Level Functional Analysis	China: Prof. WAN, Li-Jun Prof. WANG, Chan-shun Prof. MO, Yu-jun U.S.A.: Dr. WEI, Chiming
OHMORI, Kenji	Development of Ultrahigh-Precision Coherent Control and Its Applications	France: Prof. GIRARD, Bertrand and his group members
SHIGEMASA, Eiji	Deep Inner-Shell Photoexcitations in Molecules and Their Subsequent Dissociation Dynamics	France: Dr. SIMON, Marc Dr. GUILLEMIN, R. Dr. JOURNEL, L. Dr. CARNIATO, S. Dr. HAGUE, C.
KIMURA, Shin-ichi	Resonant Optical and Photoelectrical Studies on Electronic Structure near a Quantum Critical Point	Korea: Prof. KWON, Yong-Seung and group member Germany: Dr. SICHELSCHMIDT, Joerg and group member
TAIRA, Takunori	Development of Angular Quasi-Phase Matched Nonlinear Wavelength Conversion	France: Prof. AKA, Gerard Dr. PETIT, Yannick
KATOH, Masahiro	Beam Dynamics in Free Electron Laser	France: Dr. COUPRIE, Marie Emmanuelle and group member Dr. BIELAWSKI, Serge and group member
KOSUGI, Nobuhiro	Resonant Soft X-Ray Spectroscopic Study at UVSOR BL3U	Germany: Prof. RUEHL, Eckart and group members Sweden: Prof. AGREN, Hans Prof. PETERSSON, Lars G. M. Prof. NORDGREN, Joseph and group member U.S.A.: Dr. GUO, Jinghua
MATSUMOTO, Yoshiyasu	Electron-Phonon Dynamics at Solid Surfaces	U.S.A.: Prof. PETEK, H. and group members
OKAMOTO, Hiromi	Near-Field Spectroscopy of Plasmon-Induced Enhanced Photon Fields in Metal Nanoparticle Aggregates	Korea: Prof. JEONG, Dae Hong and a student

TANAKA, Koji	Photochemical Water Oxidation and Multi-Electron Reduction of Carbon Dioxide	U.S.A.: Dr. FUJITA, Etsuko Dr. MUCKERMAN, James T.
JIANG, Donglin	Studies on Molecular Design and Self-Assembly of Light-Harvesting Antennae	China: Prof. WANG, Changchun and group members
KOBAYASHI, Hayao	Development and Characterization of Multi-Functional Molecular Systems	France: Dr. KURMOO, Mohamedally

(b) Asian Core Program “Frontiers of Material, Photo- and Theoretical Molecular Sciences”

Asian Core Program is a multilateral international collaboration program carried out by JSPS (Japan Society for the Promotion of Science). It is designed to create world-class research hubs in selected fields within the Asian region, while fostering the next generation of leading researchers. The program is based on a principle of equal partnership among core institutions in Japan and other Asian countries, so that each institution is expected to secure its own matching fund. Institute for Molecular Science has launched a new collaboration project “material, photo- and theoretical molecular sciences” (2006–2011) within the framework of this Asian Core Program with three key institutes in east Asian countries: Institute of Chemistry, Chinese Academy of Science (China); The College of Natural Science, Korea Advanced Institute of Science and Technology (Korea); and Institute of Atomic and Molecular Sciences, Academia Sinica (Taiwan). At present, six joint researches are in progress, and three joint seminars have been carried out in Japanese Fiscal-Year 2006.