

# Collaboration Programs

## (a) IMS International Program

IMS has accepted many foreign scientists and hosted numerous international conferences since its establishment and is now universally recognized as an institute that is open to foreign countries. In 2004, IMS initiated a new program to further promote international collaborations. As a part of this

new program, IMS faculty members can (1) nominate senior foreign scientists for short-term visits, (2) invite young scientists for long-term stays, and (3) undertake visits overseas to conduct international collaborations.

Leader	Title	Partner
OHMORI, Kenji	Quantum Control of Atoms and Molecules with Amplitude- and Phase-Shaped Optical Pulses	France: Prof. GIRARD, Bertrand and group members U.S.A.: Prof. LEVIS, Robert J. and group members
JIANG, Donglin	Studies on Molecular Design and Self-Assembly of Light-Harvesting Antennae	China: Prof. WANG, Changchun and group members
URISU, Tsuneo	Construction of Neural Cell Molecular Signal Transmission System and Development of Molecular Science New Field	China: Prof. WANG, Chang-Shun Mr. HE
KIMURA, Shin-ichi	Optical and Photoelectrical Studies on the Local to Itinerant Electronic Structure of Strongly Correlated Electron Systems	Korea: Prof. KWON, Yong-Seung Dr. IM, Hojun Dr. KIM, Hyeong-do and their group members
KOSUGI, Nobuhiro	Resonant Soft X-Ray Spectroscopic Study at UVSOR BL3U	Germany: Prof. RUEHL, Eckart Dr. WINTER, Bernd and their group members Sweden: Prof. PETTERSSON, Lars G. M. Prof. GEL'MUKANOV, Faris and their group members France: Dr. MIRON, Catalin and group members U.S.A.: Dr. GUO, Jinghua and group members
TANAKA, Koji	Photochemical Water Oxidation and Multi-Electron Reduction of Carbon Dioxide	U.S.A.: Dr. MUCKERMAN, James T. Dr. FUJITA, Etsuko and their group members
KATOH, Masahiro	Beam Dynamics in Free Electron Laser	France: Dr. COUPRIE, Marie Emmanuelle Dr. BIELAWSKI, Serge and their group members
TAIRA, Takunori	Q-Switched Nd-Microchip Lasers with COB Doubler	France: Prof. AKA, Gerard Philippe Dr. MORTIER, Michel and their group members

SHIGEMASA, Eiji

Deexcitation Dynamics of Core Excited Molecules  
Studied by Electron Spectroscopy

France:

Dr. SIMON, Marc  
and group members

U.K.:

Prof. ELAND, John H. D.

OKAMOTO, Hiromi

Near-Field Spectroscopy of Plasmon-Induced Enhanced  
Electric Fields in Metal Nanoparticle Systems

Korea:

Prof. JEONG, Dea Hong  
and group members

### (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 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, eight joint researches are in progress, and seven joint seminars are planned within JFY 2008.

