

OKAZAKI CONFERENCE

Okazaki COE Conference

**Electronic Properties of Molecular Assemblies
—From Molecular Solid to Single Molecule—
(March 15–17, 2001)**

Organizing members:

KOBAYASHI, Hayao (Chairperson); YAKUSHI, Kyuya; NAKAMURA, Toshikazu; TADA, Hirokazu; INOUE, Katsuya; YONEMITSU, Kenji; SUZUKI, Toshiyasu

The International COE (Center of Excellence) Symposium of Institute for Molecular Science (IMS) of the last fiscal year was held on March 15–17, 2001 at Okazaki Conference Center. This symposium was organized by seven members of IMS whose research fields are concerned with the science of molecular assemblies.

The aim of this symposium was to overview the frontier of functional molecular science mainly from the view point of electronic properties of molecules and molecular assemblies. Up to now, there has been almost no chance that the leading scientists in the field of solid state science and those of molecular devices and electronics gather together to attend the same symposium. However, the communication between these two fields will be very important to get future prospect of molecular science. Under this idea, this symposium was organized. And the following topics are discussed: (1) magnetic organic metals and superconductors (2) single-component molecular metal (3) development of new functional molecules (4) organic and inorganic molecular magnets (5) organic/metal interfaces (6) Organic semiconductor transistor (7) molecular electronic devices. Besides, the lectures on the history of the discovery of conducting polyacetylene and its conduction mechanism were given by Profs. H. Shirakawa and Y. Ishiguro.

Since rapidly increasing interests are going to be attracted to the science and technology of nano-scale devices and electronic molecular functions, this COE conference was very timely and successful. About 150 attendants including 10 foreign leading scientists attended the conference. The 31 invited talks and 70 poster papers were presented. As mentioned above, this conference was an interdisciplinary one. Attendants could have a chance to see the recent progress in the field of functional molecular science.