

*Japan-Italy Bilateral Symposium on
Artificial Photosynthesis Using Metal Complexes*

Sponsored by the Grant-in-Aid for Scientific Research on Innovative Areas (2017~2022):

**[Elucidation of the molecular mechanism of photosynthesis at high time
and space resolution and development of artificial photosynthetic systems]**

<http://photoenergy-conv.net/index.html>

Supported by the Japanese Photochemistry Association, Japan Society of Coordination Chemistry
and the Photofunctional Complexes Research Association Japan.

October 2, 2017

Tokyo, Japan

Date: 2017 / 10 / 02 Mon. 10:00-18:00

Venue: Tokyo Institute of Technology, Ookayama Campus

W-8 building 10F Room 1001

*The W-8 building is 5-min walk from Ookayama station

Registration: Pre-registration is not required.

No Registration Fee !

★Campus Map



<Program>

10:00-10:05 Opening Remarks (Prof. Osamu Ishitani)

<Session 1 > Chairperson: Prof. Sebastiano Campagna

10:05-10:30 Prof. Hiromu Kumagai (Tokyo Tech.)

“Hybrid Photoelectrochemical Systems Consisting of Molecular and Semiconductor Photocatalysts for CO₂ Reduction”

10:30-11:05 Prof. Takahiko Kojima (Tsukuba Univ.)

“Photocatalytic CO₂ reduction and H₂ evolution using Ni(II) complexes”

11:05-11:50 Prof. Paola Ceroni (Università di Bologna)

“Hybrid organic-inorganic light-harvesting antennae”

11:50-12:15 Prof. Yusuke Tamaki (Tokyo Tech.)

“Development of Ru(II) redox photosensitizers: Toward visible-light absorption over a much wider range of wavelengths by singlet-to-triplet transitions”

12:15-13:45 Lunch Break

<Session 2 > Chairperson: Prof. Osamu Ishitani

13:45-14:20 Prof. Hitoshi Ishida (Kitasato Univ.)

“Photocatalytic CO₂ Reduction by Ruthenium Complexes: Toward Artificial Photosynthesis”

14:20-14:55 Prof. Tohru Wada (Rikkyo Univ.)

“Mechanism of Water Oxidation Catalyzed by Dinuclear Ruthenium Complexes”

14:55-15:30 Prof. Masayuki Yagi (Niigata Univ.)

“Development of water oxidation catalysts by metal complexes toward artificial photosynthesis”

15:30-15:50 Coffee Break

<Session 3 > Chairperson: Prof. Masayuki Yagi

15:50-16:35 Prof. Sebastiano Campagna (Università di Messina)

“Multinuclear Ru(II) and Os(II) dendrimers at a glance: light-harvesting and photoinduced water oxidation”

16:35-17:00 Prof. Hiroyuki Takeda (Tokyo Tech.)

“Photocatalytic CO₂ Reduction using Cu, Fe, and Mn Complexes”

17:00-17:35 Prof. Ho-Chol Chang (Chuo Univ.)

“Photochemical Dehydration based on Iron(II) Complexes with Redox-active Ligands”

17:35-17:40 Closing Remarks (Prof. Osamu Ishitani)

17:40-17:50 Taking Photos