



**Center for Creation of Functional Materials (CCFM)
Strategic Initiative (A), University of Tsukuba**



University of Tsukuba

International Mini-Symposium on Photosynthesis

9:00 – 17:10, Sat 26th January, 2013

Plenary Lecture

“Water Oxidation Chemistry of Photosystem II and Artificial Systems”

Prof. Gary W. Brudvig
(Yale University)

Keynote Lectures

Prof. Shunichi Fukuzumi
(Osaka University)

Prof. Koji Tanaka
(Kyoto University)

Prof. Osamu Ishitani
(Tokyo Institute of Technology)

Prof. Yasushi Tsuji
(Kyoto University)

Prof. Nobuo Kamiya
(Osaka City University)

Prof. Takahiko Kojima
(University of Tsukuba)

Prof. Masami Kobayashi
(University of Tsukuba)

- ◆ 講演会場: 筑波大学学生会館国際会議室 (参加無料)
- ◆ 懇親会: 1月26日(土) 18:00-20:00 オークラフロンティアホテルつくば
- ◆ 主催: 筑波大学戦略イニシアティブ(A)「機能物質創製研究拠点」
- ◆ お問い合わせ: 小島隆彦 kojima@chem.tsukuba.ac.jp
- ◆ ホームページ: <http://www.chem.tsukuba.ac.jp/ccfm/>

Program

- 9:00-9:10 Opening Remarks
Prof. Takahiko Kojima (University of Tsukuba)
- Chair: Prof. Takahiko Kojima**
- 9:10-10:10 KL-1 **Prof. Shunichi Fukuzumi** (Osaka University)
Artificial Photosynthesis and Respiration
- 10:10-11:00 KL-2 **Prof. Osamu Ishitani** (Tokyo Institute of Technology)
Artificial photosynthesis using homogeneous and heterogeneous photocatalytic systems
- 11:00-11:15 *Coffee Break*
- Chair: Prof. Yasuhiko Yamamoto**
- 11:15-12:05 KL-3 **Prof. Nobuo Kamiya** (Osaka City University)
Structure and function of Mn_4CaO_5 cluster in oxygen-evolving photosystem II
- 12:05-12:35 KL-4 **Prof. Masami Kobayashi** (University of Tsukuba)
Chemical evolution of chlorophylls -photosynthetic bacteria to algae and plants-
- 12:35-13:50 *Photo & Lunch*
- Chair: Prof. Hiroki Oshio**
- 13:50-14:40 KL-5 **Prof. Koji Tanaka** (Kyoto University)
Redox reactions of small inorganic and organic molecules aimed at energy transducer
- 14:40-15:10 KL-6 **Prof. Takahiko Kojima** (University of Tsukuba)
Photocatalytic Oxidation Reactions of Organic Compounds by Ruthenium Complexes
- 15:10-15:30 *Coffee Break*
- Chair: Prof. Takeshi Akasaka**
- 15:30-16:00 KL-7 **Prof. Yasushi Tsuji** (Kyoto University)
Carbon Dioxide as a Carbon Source in Transition-metal Catalyzed Transformations
- 16:00-17:00 PL-1 **Prof. Gary W. Brudvig** (Yale University , USA)
Water Oxidation Chemistry of Photosystem II and Artificial Systems
- 17:00-17:10 Closing Remarks
Prof. Takeshi Akasaka (University of Tsukuba)
- 18:00-20:00 *Banquet at Okura Frontier Hotel Tsukuba*