

May 30, Saturday

Opening remarks: 9:00–9:10 Hitoshi Tamiaki (Chairman, *Ritsumeikan Univ.*)

- PL-1** 9:10–10:00 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)
Selective Synthesis and Application of Porphyrinoid Pigments for Chemistry,
Biology and Medicine
Franz-Peter Montforts
Univ. Bremen, Bremen, Germany

Coffee break: 10:00–10:20

- O-1** 10:20–10:50 (Chairperson: F.-P. Montforts, *Univ. Bremen*)
Mechano- and Phototriggered Switching of Solid State Structures and Emissions
of Gold(I) Isocyanide Complexes
Tomohiro Seki, Hajime Ito
Hokkaido Univ., Sapporo, Japan

- O-2** 10:50–11:20 (Montforts)
MLCT Excited States of Transition Metal Complexes under Rigid Environments
Akitaka Ito
Osaka City Univ., Osaka, Japan

- S-1** 11:20–11:30 (Montforts)
(P-6) Synthesis and Photophysical Properties of Sulfur-Containing Chlorophyll
Derivatives
Kifa Kim, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan

- S-2** 11:30–11:40 (Montforts)
(P-24) Formation of Non-Complexing π -Electronic Anions Based on Dipyrrolyldiketone
Boron Complexes
Yoshifumi Sasano, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan

Group Photo: 11:40

Lunch: 11:40–12:30

Poster session: 12:30–14:00 (K304 & K305)

Odd number poster presenters, please stand by during 12:30–13:15.
Even number poster presenters, please stand by during 13:15–14:00.

- PL-2** 14:10–15:00 (Chairperson: D. Jiang, *Inst. Mol. Sci.*)
Construction of Artificial Photosynthetic Models with Functional Pigments
Wen-Jing Shi, Jian-Yong Liu, Janet T. F. Lau, Yingsi Huang, Dennis K. P. Ng
Chinese Univ. Hong Kong, Hong Kong, China
- O-3** 15:00–15:20 (Chairperson: Jiang)
Chlorosomal Self-Assemblies with Synthetic Chlorophyll Derivatives and Their Properties for Artificial Light-Harvesting Antenna Systems
Sunao Shoji, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- O-4** 15:20–15:50 (Jiang)
Wideband Ruthenium Sensitizers for Multi-Junction Photovoltaics Using Lead Halide Perovskite Solar Cells
Takumi Kinoshita
Univ. Tokyo, Tokyo, Japan
- O-5** 15:50–16:10 (Jiang)
 π -Electronic Systems That Provide Various Anion Complexes and Resulting Ion-Pairing Assemblies
Ryohei Yamakado, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- Coffee break: 16:10–16:30
- O-6** 16:30–17:10 (Chairperson: D. K. P. Ng, *Chinese Univ. Hong Kong*)
Tailor-Made Porous Organic Polymer Films for Light Harvesting and Energy Transduction
Donglin Jiang
Inst. Mol. Sci., Okazaki, Japan
- O-7** 17:10–17:40 (Ng)
Boronate Molecular Assemblies: Chemically Tailorable Platforms for Developing Multi-Color Emissive Chemosensors
Ryuhei Nishiyabu, Yuji Kubo
Tokyo Metro. Univ., Hachioji, Japan
- O-8** 17:40–18:10 (Ng)
Photocatalyst for Artificial Photosynthesis Based on Molecular Assembly Using Periodic Mesoporous Organosilicas and Metal Complexes
Hiroyuki Takeda, Yutaro Ueda, Tatsuto Yui, Kazuhide Koike, Yasutomo Goto, Masataka Ohashi, Takao Tani, Shinji Inagaki, Osamu Ishitani
Tokyo Inst. Tech., Tokyo, Japan; Toyota Central R&D Labs., Inc., Nagakute, Japan; AIST, Ibaraki, Japan; CREST/JST, Saitama, Japan

Closing remarks: 18:10–18:20 Munenori Numata (*Kyoto Pref. Univ.*)

Banquet: 18:30– Dining Room (1F)

Poster Session (K304 & K305)

Please mount your poster by the noon of May 30 and stand by it during the following time:
odd number, 12:30–13:15; even number, 13:15–14:00.

- P1** Preparation and Growing Mechanism of C₆₀-Ethylenediamine Adduct Particles
Tsuyoshi Akiyama, Yuji Ono, Jo Saito, Takeo Oku
Univ. Shiga Pref., Hikone, Japan
- P2** Analysis of Metal Insertion into Methyl Pyropheophorbide *a* under Various Conditions for Application to Copper Ion Sensors
Yoshitaka Saga, Kenta Amari
Kinki University, Higashi-Osaka, Japan
- P3** Synthesis of Diaryldiketone Derivatives as Anion-Responsive π -Electronic Systems
Masaya Fujiwara, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P4** Formation of π -Electronic Anion Based on Dipyrrolylphenol
Ayaka Fukui, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P5** Preparation of Solubilized Fullerene-Diamine Adducts toward Photovoltaic Application
Daisuke Izumoto, Tsuyoshi Akiyama, Takeo Oku
Univ. Shiga Pref., Hikone, Japan
- P6** Synthesis and Photophysical Properties of Sulfur-Containing Chlorophyll Derivatives
Kifa Kim, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P7** Synthesis and Optical Properties of Chlorophyll Derivatives Possessing an Aryl-Substituted β -Diketonate Group at The C3 Position and Their Difluorobronated Complexes
Yusuke Kinoshita, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P8** Characterization of C8-Vinyl Reduction Activity of BciA from *Rhodobacter capsulatus*
Manami Kobayashi, Chihiro Azai, Tadashi Mizoguchi, Hitoshi Tamiaki, Yusuke Tsukatani, Kazuki Terauchi
Ritsumeikan Univ., Kusatsu, Japan

- P9** Preparation and Evaluation of *meso*-Tetrathienylporphyrin-Polythiophene Composite Film by Sequential Electrochemical Polymerization
Yu Kumagawa, Tsuyoshi Akiyama, Atsushi Suzuki, Takeo Oku
Univ. Shiga Pref., Hikone, Japan
- P10** Temperature Compensation of KaiC Phosphorylation in Cyanobacterial Circadian Clock: Biochemical Analysis of Two Homologous Domains of KaiC
Jun Matsuyama, Katsuaki Oyama, Chihiro Azai, Kazuki Terauchi
Ritsumeikan Univ., Kusatsu, Japan
- P11** Insight into the Function of Alanine-422 Residue of KaiC Involved in Autonomous Synchronization of Circadian Phosphorylation Rhythm
Kazuki Nagata, Jun Matsuyama, Yoshitaro Sanbayashi, Katsuaki Oyama, Chihiro Azai, Kazuki Terauchi
Ritsumeikan Univ., Kusatsu, Japan
- P12** Chirality Induction of Cyclic π -Electronic Systems by Inner Modifications
Wakana Naito, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P13** Synthesis of Oligopyrroles That Form Dimension-Controlled Assemblies
Kazuto Nakamura, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P14** Creation of Metastable Supramolecular Polymers Controlled under Microflow Conditions
Rie Nogami, Munenori Numata
Kyoto Pref. Univ., Kyoto, Japan
- P15** Complexation of Cationic Zinc Chlorophyll and Anionic Copolymers
Tomohiro Miyatake, Tomoya Oda, Hisato Oki
Ryukoku Univ., Otsu, Japan
- P16** Synthesis of 13²-Alkyl-(pyro)pheophorbides and Non-Epimerized Chlorophyll *a* Mimic
Shin Ogasawara, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P17** Synthesis of Asymmetric Dipyrrolyldiketone Derivatives as Anion Receptors by Modifications at Boron
Hiromitsu Maeda, Eriko Ohta, Saya Tanaka
Ritsumeikan Univ., Kusatsu, Japan
- P18** Fabrication and Characterization of PCBM:P3HT Thin Film Solar Cells with Zinc Phthalocyanine
Takeo Oku, Haruto Maruhashi, Atsushi Suzuki, Tsuyoshi Akiyama, Yasuhiro Yamasaki
Univ. Shiga Pref., Hikone, Japan

- P19** Isolation of Chlorosomes from Various Photosynthetic Green Bacteria
Misaki Ryono, Jiro Harada, Yusuke Tsukatani, Tadashi Mizoguchi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan; Kurume Univ. Sch. Med., Kurume, Japan; Tokyo Inst. Tech. Tokyo, Japan; PRESTO/JST, Saitama, Japan
- P20** Facile Preparation of Purpurin-18 and Bacteriopurpurin-18 Derivatives from Chlorophyllous Pigments Using Molecular Oxygen with Action of the Surface of Titanium Oxides in the Dark
Yoshitaka Saga, Atsushi Ishitani, Tae Otono, Naoya Takahashi
Kinki Univ., Higashi-Osaka, Japan
- P21** Selective Detection of Histidine in Aqueous Solution Based on Disassembly of Chlorophyll Self-Aggregates
Kotowa Sakai, Hitoshi Tamiaki, Toshitaka Ikeuchi, Shin-ichi Sasaki
Nagahama Inst. Bio-Sci. Tech., Nagahama, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P22** Ion Exchange Chromatography and Gel Filtration Chromatography Analyses of Cyanobacterial Clock Protein KaiA
Yoshitaro Sanbayashi, Ryo Ikeuchi, Katsuaki Oyama, Chihiro Azai, Kazuki Terauchi
Ritsumeikan Univ., Kusatsu, Japan
- P23** C13-Substituent Effects on Synthetic Bacteriochlorophyll Derivatives
Shin-ichi Sasaki, Hitoshi Tamiaki
Nagahama Inst. Bio-Sci. Tech., Nagahama, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P24** Formation of Non-Complexing π -Electronic Anions Based on Dipyrrolyldiketone Boron Complexes
Yoshifumi Sasano, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P25** Electronic Structures, Magnetic and Optical Properties of Multi-Decker Vanadyl-based Phthalocyanines
Atsushi Suzuki, Takeo Oku
Univ. Shiga Pref., Hikone, Japan
- P26** Fabrication and Characterization of Perovskite-Based Solar Cells Using Shuttle-Cock Type Phthalocyanines
Atsushi Suzuki, Tomoyasu Kida, Tatsuru Takagi, Takeo Oku
Univ. Shiga Pref., Hikone, Japan
- P27** Analysis of Protein Complexes Containing Glycosyltransferases in Plant Cell
Kazuhiro Takada, Hirotsugu Kato, Takeshi Ishimizu
Ritsumeikan Univ., Kusatsu, Japan

- P28** Synthesis of β -Fluoroalkylpyrrole-Based π -Electronic Systems
Hiromitsu Maeda, Ryota Takasago
Ritsumeikan Univ., Kusatsu, Japan
- P29** Synthesis of New Diarylethene Derivatives with Ionic Structures and the Photoresponse
Kazuki Takase, Masakazu Morimoto, Yuko Kojima, Satoshi Yokojima, Shinichiro Nakamura, Kingo Uchida
Ryukoku Univ., Otsu, Japan
- P30** Kinase Assay with Cell-Penetrative Polyallylamine and Fluorogenic Liposome
Tomohiro Miyatake, Hitoshi Takemura, Yuji Isotani, Matile Stefan
Ryukoku Univ., Otsu, Japan
- P31** Synthesis of Dipyrrolylpyrazoles as Anion-Responsive π -Systems Forming Dimension-Controlled Assemblies
Yasunao Tani, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P32** *In-vitro* Assay of Demethoxycarbonylation of Self-Aggregative Bacteriochlorophylls in Light-Harvesting Antennas
Misato Teramura, Jiro Harada, Tadashi Mizoguchi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan; Kurume Univ. Sch. Med., Kurume, Japan
- P33** Synthesis and Self-aggregation of Zinc 20-Substituted Chlorophyll Derivatives
Ayaka Wada, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P34** Self-Aggregation of Synthetic Bacteriochlorophyll-*d* Amino-Analogs in an Aqueous Alkaline Micelle Solution
Hiroaki Watanabe, Tadashi Mizoguchi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P35** Synthesis and Self-Organization of Zinc 3¹-*N*-Methylamino-Chlorins and Their Dyads
Tomohiro Miyatake, Yusuke Yamamoto, Yohei Masuda, Hitoshi Tamiaki
Ryukoku Univ., Otsu, Japan; Ritsumeikan Univ., Kusatsu, Japan