

## June 7, Wednesday

Opening remarks; 9:15-9:20 Hitoshi Tamiaki (Chairman, *Ritsumeikan Univ.*)

- O-1** 9:20-10:00 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)  
Nanoscale Architecture through Subcomponent Self-Assembly  
Jonathan Nitschke, Marie Hutin, David Schultz  
*Univ. Geneva, Genève, Switzerland*
- O-2** 10:00-10:20 (H. Tamiaki)  
Luminescent Linear- and Ring-Shaped Rhenium(I) Diimine Polymers Bridged  
with Bidentate Phosphorous Ligands  
Yohei Yamamoto, Naoya Kamimura, Chiaki Nishiura, Kazuhide Koike, Osamu  
Ishitani  
*Tokyo Inst. Tech., Tokyo, Japan; AIST, Tsukuba, Japan*

Coffee break: 10:20-10:40

- O-3** 10:40-11:10 (Chairperson: H. Maeda, *Ritsumeikan Univ.*)  
Preparation and Properties of Snow-Flake Like Dendrimers  
Masatoshi Kozaki, Kogen Akita, Tomoki Kunikawa, Hitoshi Tsujimura  
*Osaka City Univ., Osaka, Japan*
- O-4** 11:10-11:30 (H. Maeda)  
Self-Aggregation of Semi-Synthetic Bacteriochlorophylls-*c* with Several Esterified  
Alkyl Chains as a Model of Green Bacterial Antennae  
Tadashi Mizoguchi, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*
- S-1** 11:30-11:40 (H. Maeda)  
**(P20)** Synthesis and Self-Aggregation of Zinc Chlorophyll Derivatives Possessing Multi-  
Perfluoroalkyl Chains  
Reiko Shibata, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*
- S-2** 11:40-11:50 (H. Maeda)  
**(P19)** Sequential Actions of Nitrogenase-Like Enzymes Convert Porphyrin to  
Bacteriochlorin in Bacteriochlorophyll Biosynthesis: Initial Characterization  
of Chlorophyllide *a* Reductase from *Rhodobacter capsulatus*  
Jiro Nomata, Tadashi Mizoguchi, Hitoshi Tamiaki, and Yuichi Fujita  
*Nagoya Univ. Nagoya, Japan; Ritsumeikan Univ., Kusatsu, Japan*
- S-3** 11:50-12:00 (H. Maeda)  
**(P10)** Liquid Structure of Water-Acetone Binary Mixtures  
Misaki Katayama, Kazuhiko Ozutsumi  
*Ritsumeikan Univ., Kusatsu, Japan*

Poster session: 13:00-14:30 (K306. Odd number poster presenters, please stand by during 13:00-13:45. Even number poster presenters, please stand by during 13:45-14:30.)

**O-5** 14:30-15:10 (Chairperson: J. Nitschke, *Univ. Geneve*)  
Organizing  $\pi$ -Conjugated Molecular Systems into Functional Materials: Toward  
Electronic Devices  
Frédéric Fages  
*Univ. de la Méditerranée, Marseille, France*

**O-6** 15:10-15:30 (J. Nitschke)  
Guest-Induced Conformational Control of Cyclic Chlorophyll Oligomers  
Shin-ichi Sasaki, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*

**O-7** 15:30-16:00 (J. Nitschke)  
Chiral Charge Transfer Complex. Circular Dichroisms of Donor-Acceptor  
Cyclophane and Donor-Acceptor Dyad  
Tadashi Mori  
*Osaka Univ., Suita, Japan*

Coffee break: 16:00-16:30

**O-8** 16:30-17:00 (Chairperson: F. Fages, *Univ. de la Méditerranée*)  
Non-Covalent Graphitic Nanotubes via Programmed Self-Assembly  
Takanori Fukushima  
*Nanospace Project, JST, Tokyo, Japan*

**O-9** 17:00-17:30 (F. Fages)  
Solubilization of Fullerenes and Carbon Nanotubes Using Soubilizing Agents and  
Their Applications  
Atsushi Ikeda  
*NAIST, Ikoma, Japan*

**O-10** 17:30-18:00 (F. Fages)  
Nano-Organized Fullerene Supramolecular Materials  
Takashi Nakanishi  
*NIMS, Tsukuba, Japan*

Break: 18:00-18:30

Banquet: 18:30-

**June 8, Thursday**

**O-11** 9:30-10:00: (Chairperson: K. Ozutsumi, *Ritsumeikan Univ.*)  
Photochemical Processes of Perylene Related Compounds with Metals Using UV  
Laser and Synchrotron Radiation  
Satoru Nishio, Takuya Kakimoto, Takehiro Yamada, Toshiaki Kobayashi, Yasutaka  
Wakai, Hiromasa Tanaka  
*Ritsumeikan Univ., Kusatsu, Japan*

**O-12** 10:00-10:30 (K. Ozutsumi)  
Solvent Effect on Properties of Fe(II) Spin Transition Complex  
Makoto Kurihara  
*Shizuoka Univ., Shizuoka, Japan*

Coffee break: 10:30-10:50

**O-13** 10:50-11:20 (Chairperson: S. Nishio, *Ritsumeikan Univ.*)  
Molecular and Liquid Structure of Ionic Liquids as Nano-Organized Materials  
Yasuhiro Umebayashi  
*Kyushu Univ., Fukuoka, Japan*

**O-14** 11:20-11:50 (S. Nishio)  
Photo-Hydrogen-Evolving Molecular Devices Consisting of Ru(II) and Pt(II)  
Centers  
Ken Sakai  
*Kyushu Univ., Fukuoka, Japan*

Closing remarks; 11:50-12:00 Kazuhiko Ozutsumi (*Ritsumeikan Univ.*)

## Poster Session (K306)

Please mount your poster by the noon of June 7 and stand by it during the following time: odd number, 13:00-13:45; even number, 13:45-14:30.

- P1** Substituent Effects for Anion Binding Properties of C<sub>3</sub>-Bridged Oligopyrroles  
Chikoto Fujimoto, Hiromitsu Maeda  
*Ritsumeikan Univ., Kusatsu, Japan*
- P2** Controlled Aggregation of Hydrogen-Bonding Perylene Bisimide with Azobenzene-Appended Melamine Molecule  
Shiki Yagai, Saori Hamamura, Takashi Karatsu, Akihide Kitamura, Frank Würthner  
*Chiba Univ., Chiba, Japan; Univ. Würzburg, Würzburg, Germany*
- P3** Nano-scale Architectures Based on Dipyrrin Coordination Oligomers  
Hiromitsu Maeda, Masahiro Hasegawa, Takashi Hashimoto, Takashi Nakanishi  
*Ritsumeikan Univ., Kusatsu, Japan*
- P4** Discrete Coordination Oligomers Fabricated by Functional Dipyrrin Derivatives  
Hiromitsu Maeda, Takashi Hashimoto, Masahiro Hasegawa  
*Ritsumeikan Univ., Kusatsu, Japan*
- P5** XAS Spectral Investigation of Changes in Coordination Numbers of Network-Forming Cations and -Modifying Ions in Various Glasses  
Junko Ide, Katsumi Handa, Kazuhiko Ozutsumi  
*Ritsumeikan Univ., Kusatsu, Japan*
- P6** Synthesis and Anion Binding Properties of Fluorinated C<sub>3</sub>-Bridged Oligopyrrole  
Hiromitsu Maeda, Yoshihiro Ito  
*Ritsumeikan Univ., Kusatsu, Japan*
- P7** Micro- and Nanometer-scale Porous, Fibrous, and Sheet Architectures Fabricated by Supramolecular Assemblies of Dipyrrolyldiketones  
Hiromitsu Maeda, Yoshihiro Ito, Yukio Kusunose, Chikoto Fujimoto, Takashi Nakanishi  
*Ritsumeikan Univ., Kusatsu, Japan; NIMS, Tsukuba, Japan*
- P8** Intramolecular and Intermolecular Structures of *n*-Pentane in a Liquid Phase Studied by Means of X-Ray Scattering  
Kyosuke Iwamoto, Misaki Katayama, Kazuhiko Ozutsumi  
*Ritsumeikan Univ., Kusatsu, Japan*
- P9** One-way Energy and/or Electron Transfer in Linear-Shaped Re(I) Multinuclear Complexes  
Naoya Kamimura, Kazuhide Koike, Osamu Ishitani  
*Tokyo Inst. Tech., Tokyo, Japan; AIST, Tsukuba, Japan*

- P10** Liquid Structure of Water-Acetone Binary Mixtures  
Misaki Katayama, Kazuhiko Ozutsumi  
*Ritsumeikan Univ., Kusatsu, Japan*
- P11** Micro Crystal Growth of Perylene Tetracarboxylic Derivatives by Synchrotron Radiation  
Toshiaki Kobayashi, Takehiro Yamada, Hiromasa Tanaka, Satoru Nishio  
*Ritsumeikan Univ., Kusatsu, Japan*
- P12** Chlorophyll-Derived Chemosensor for Ratiometric Amine Determination  
Shin-ichi Sasaki, Yuki Kotegawa, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*
- P13** Synthesis and Supramolecular Polymerization of Oligo(p-phenylenevinylene)-Functionalized Bisureas  
Shiki Yagai, Shun Kubota, Takashi Karatsu, Akihide Kitamura  
*Chiba Univ., Chiba, Japan*
- P14** Optical Properties of Synthetic Porphyrins with or without an Exo-Five-Membered Ring and a Keto Carbonyl Group, both of which are Characteristic in the Molecular Structure of Naturally Occurring Chlorophylls  
Michio Kunieda, Emi Nakato, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*
- P15** Synthesis and Properties of  $\beta$ -Ethyl-Substituted Derivative of Dipyrrrolyldiketone  
Hiromitsu Maeda, Yukio Kusunose, Yuta Mihashi, Yohei Haketa, Yoshihiro Ito  
*Ritsumeikan Univ., Kusatsu, Japan*
- P16** Self-Assembly of N-Confused Porphyrin Metal Complexes  
Tatsuki Morimoto, Hiroaki Ogawa, Hiroyuki Furuta  
*Kyushu Univ., Fukuoka, Japan; PRESTO-JST, Kawaguchi, Japan*
- P17** Self-Assembly of Synthetic Zinc Chlorin Possessing Triethoxysilyl Group  
Yoshitaka Saga, Yukihiro Nishikawa, Hitoshi Tamiaki  
*Kinki Univ., Osaka, Japan; Ritsumeikan Univ., Kusatsu, Japan*
- P18** Synthesis and Photophysical Properties of Ring-Shaped Rhenium(I) Polymers  
Chiaki Nishiura, Yohei Yamamoto, Kazuhide Koike, Osamu Ishitani  
*Tokyo Inst. Tech., Tokyo, Japan; AIST, Tsukuba, Japan*
- P19** Sequential Actions of Nitrogenase-Like Enzymes Convert Porphyrin to Bacteriochlorin in Bacteriochlorophyll Biosynthesis: Initial Characterization of Chlorophyllide *a* Reductase from *Rhodobacter capsulatus*  
Jiro Nomata, Tadashi Mizoguchi, Hitoshi Tamiaki, Yuichi Fujita  
*Nagoya Univ., Nagoya, Japan; Ritsumeikan Univ., Kusatsu, Japan*

- P20** Synthesis and Self-Aggregation of Zinc Chlorophyll Derivatives Possessing Multi-Perfluoroalkyl Chains  
Reiko Shibata, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*
- P21** Photochemistry of Supramolecular System with Photoactive Ruthenium(II)-Gold(I) Complexes  
Michito Shiotsuka, Hayato Ogasawara, Youhei Yamamoto, Satoru Onaka  
*Nagoya Inst. Tech., Nagoya, Japan*
- P22** Dendrimer Container for Controlled Yb<sup>3+</sup> Accommodation and Anion-Responsive Near Infrared Luminescence  
Hiroshi Tsukube, Yukiko Suzuki, Dharam Paul, Yumiko Kataoka, Satoshi Shinoda  
*Osaka City Univ., Osaka, Japan*
- P23** Fabrication of Ru(bpy)<sub>3</sub> - Molybdenum Oxide - Viologen Triad LB Film for Vectorial Electron Transfer  
Eiji Takeda, Hisanao Usami, Eiji Suzuki  
*Shinshu Univ., Nagano, Japan*
- P24** Self-Assembly of 3<sup>1</sup>-Methoxy Amphiphilic Zinc Chlorins in an Aqueous Medium  
Tomohiro Miyatake, Shuntaro Tanigawa, Hitoshi Tamiaki  
*Ryukoku Univ., Otsu, Japan; Ritsumeikan Univ., Kusatsu, Japan*
- P25** Fabrication and Characterization of NiO-Viologen Diad System  
Hisanao Usami, Mitsuo Tokumaru, Eiji Suzuki  
*Shinshu Univ., Nagano, Japan*
- P26** Surface Enhanced Raman Spectroscopy with STM Tips for Polythiophene Nanoparticles  
Kosuke Wada, Takuya Kakimoto, Ryutaro Matsutani, Hiromasa Tanaka, Satoru Nishio  
*Ritsumeikan Univ., Kusatsu, Japan*
- P27** Creation of Hydrogen-Bonded Supramolecular Polymers Featuring Dye Segments  
Shiki Yagai  
*Chiba Univ., Chiba, Japan*
- P28** Synthesis and the Gelation Ability of Azobenzene Derivatives with Chiral Amide Groups  
Kingo Uchida, Hirofumi Yamada, Hirotomo Nakagawa, Yukihide Ishibashi, Keisuke Tani, Hiroshi Miyasaka  
*Ryukoku Univ., Otsu, Japan; Osaka Univ., Toyonaka, Japan*