PROGRAM

Poster Presentation (10F Interchanging Room for Researchers)
10:00~11:30

Invited Lectures (1F Culture-Interchanging Room)
12:55–13:00 Opening Remarks Prof. Yoshiki Morimoto

(Chair Prof. Tetsuro Shinada)
13:00–13:25 Prof. Masumi Itazaki (OCU Priority Research)
C–E (E = Ge, S) and Ge–S Bond Formation Catalyzed by an Fe Complex

13:25–13:50 Prof. Tomoyuki Yatsuhashi (OCU Priority Research and PRESTO, JST)
Strategy to Create Highly Charged Molecular Ions

13:50–14:15 Prof. Shin G. Goto (OCU Priority Research)
Molecular Mechanisms Underpinning Seasonal Adaptation of the Bean Bug.

14:15–14:30 Break

(Chair Prof. Takanori Nishioka)
14:30–15:30 Prof. Gilles Muller (CREST Invited Lecturer: San José State University, USA)
Luminescent Chiral Lanthanide(III) Systems as Molecular Probes

(Chair Prof. Junji Teraoka)
15:30–16:30 Prof. Yukihiro Ozaki (CREST Invited Lecturer: Kwansei Gakuin University, Japan)
Mechanism and Applications of Surface-enhanced Raman Spectroscopy

(Chair Prof. Yoshio Teki)
16:30–17:40 Prof. Art van der Est (Invited Lecture of Graduate School Attractive Education
Project & Priority Research Project of Osaka City University,
Department of Chemistry, Brock University, Canada)
Light-Induced Spin-Alignment in Paramagnetic Porphyrins

17:40–17:45 Closing Remarks Prof. Yoshio Teki
**Poster Presentation** (10F Interchanging Room for Researchers)
10:00~11:30

(Poster presentations with an asterisk will be reviewed for the Student Poster-award.)

**PP01** Development of a new synthetic method of five-membered rings including three adjacent chiral centers by a silyl triflate-promoted tandem epoxide rearrangement-cyclization
○ Takeshi Kodama, Shingo Harada, Takeshi Tanaka, Yoshimitsu Tachi, Yoshiki Morimoto
*Department of Chemistry, Graduate School of Science, Osaka City University*

**PP02** Development of the Pyrrolidine-containing Ligand Aspiring to Bio-inspired Chiral Catalyst
○ Yuki Ohno, Yoshiki Morimoto, and Yoshimitsu Tachi
*Department of Chemistry, Graduate School of Science, Osaka City University*

**PP03** Structure Determination of a New Juvenile Hormone from a Heteropteran Insect
○ Kanako Kaihara, Tetsuro Shinada, Hideharu Numata, Yasufumi Ohfune, Toyomi Kotaki
*Graduate School of science, Osaka City University, National Institute of Agrobiological Sciences*

**PP04** Efficient Total Synthesis of (−)-Kainic Acid
○ Kentaro Oe, Tetsuro Shinada, Yasufumi Ohfune
*Graduate School of Science, Osaka City University*

**PP05** Stereoselective Synthesis of the Right-half Segment of Kaitocephalin
○ Yoko Yasuno, Tetsuro Shinada, Yasufumi Ohfune
*Graduate School of Science, Osaka City University*

**PP06** Synthetic research of Juvenile Hormone I
○ Atsushi Manabe, Tetsuro Shinada, Yasufumi Ohfune
*Graduate School of Science, Osaka City University*

**PP07** Total Synthesis of (−)-Funebrine using Au-catalyzed Cyclization of Allenylsilanes
○ Takuya Okada, Kazuhiko Sakaguchi, Yasufumi Ohfune
*Graduate School of Science, Osaka City University*

**PP08** Incorporation of squaric acid-containing amino acid into peptide
○ Tetsuro Shinada, Yuuichi Kiniwa, Toshikazu Ishida, Yasufumi Ohfune
*Graduate School of Science, Osaka City University*

**PP09** Synthetic Studies on Prunustatin A and Splenocin B
○ Ken-ichi Yoshida, Tomokazu Inaoka, Yoshinosuke Usuki, Hideo Iio
*Graduate school of Science, Osaka City University*

**PP10** Synthetic Studies on New Fluorine-Containing Synthons
○ Yousuke Wakamatsu, Takeshi Hayashi, Yoshinosuke Usuki, Hideo Iio
*Graduate school of Science, Osaka City University*
PP11  Mass spectrometric analysis of peptides in brain neurosecretory cells in the adult blowfly, Protosphormia terraenovae.
○Sakiko Shiga, Aoi Inosaki, Akikazu Yasuda, Tetsuro Shinada, Yasufumi Ohfune, Hideharu Numata

  Department of Biology and Geosciences, Graduate School of Science, Osaka City University, Osaka 558-8585, Japan, Sunory Institute for Bioorganic Research, Osaka 618-8503, Japan, Department of Molecular and Material Sciences, Graduate School of Science, Osaka City University, Osaka 558-8585, Japan

PP12* Disappearance of microtubule during pseudohyphal formation of budding yeast
○Wakae Murata, Nozomi Kitahara, Usuki Yoshinosuke, Akira Ogita, Ken-ichi Fujita, Toshio Tanaka

  Graduate School of Science, Osaka City University, Research Center for Urban Health and Sports, Osaka City University

PP13* Molecular structure of poly(γ-glutamic acid) consisting of clusters
○Masahiro Yutani, Akira Ogita, Ken-ichi Fujita, Toshio Tanaka

  Graduate School of Science, Osaka City University, Research Center for Urban Health and Sports, Osaka City University

PP14 Amplification of the fungicidal activity of amphotericin B by allicin, an allyl sulfur compound from garlic
○Akira Ogita, Masahiro Yutani, Baiyinlang Borjihan, Wakae Murata, Chang-Kyung Kang, Ken Yamauchi, Ken-ichi Fujita, Toshio Tanaka

  Research Center for Urban Health and Sports, Osaka City University, Graduate School of Science, Osaka City University, Institute of Physical Education, Keio University

PP15* Ligand Exchange Reaction of Iron Complexes Bearing two Group 14 Element Ligands
○Masahiro Kamitani, Kensuke Ueda, Masumi Itazaki, Hiroshi Nakazawa

  Graduate School of Science, Osaka City University

PP16* Alkyl Migration from Platinum to Phosphenium Ligand
○Yuka Shigesato, Masumi Itazaki, Hiroshi Nakazawa

  Graduate School of Science, Osaka City University

○Syunya Ikenaka, Chiasa Uragami, Toshiyuki Kusumoto, Ritsuko Fujii, Masakazu Hirotso, Takanori Nishioka, Hideki Hashimoto, Isamu Kinoshita

  Osaka City University, CREST/JST, OCARINA

PP18* Synthesis and Properties of Iron Complexes Bearing N,C,S-Tridentate Ligands
○Kiyokazu Santo, Chiaki Tsuboi, Masakazu Hirotso, Takanori Nishioka, Isamu Kinoshita

  Department of Chemistry, Graduate School of Science, Osaka City University
PP19 Thermoelectric Figure of Merit of Novel $\tau$-type Conductor and Thermal Conductivity of BEDT-TTF Salts
○ Harukazu Yoshino, Haruki Nakada, Keizo Murata, Rika Tanaka, George C. Papavassiliou, George C. Anyfantis
Graduate School of Science, Osaka City University, Japan, Graduate School of Engineering, Osaka City University, Japan, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

PP20* A light-harvesting antennae composed of porphyrins, rigid backbones and flexible chains
○ Atsuhiro Uetomo, Shuichi Suzuki, Masatoshi Kozaki, Keiji Okada
Graduate School of Science, Osaka City University

PP21* Studies on Photoinduced Charge Separation of Triphenylamine-Platinum-Naphthaldiimide Triads
○ Ryoji Sugimura,1 Shuichi Suzuki,1 Masatoshi Kozaki,1 Kazutoshi Keyaki,2 Koichi Nozaki,2 Noriaki Ikeda,3 Kimio Akiyama,4 Keiji Okada1
1Department of Chemistry, Graduate School of Science, Osaka City University, 2Department of Chemistry, Graduate School of Science and Engineering, University of Toyama, 3Department of Chemistry and Materials Technology, Kyoto Institute of Technology, 4Instituted of Multidisciplinary Research for Advanced Materials, Tohoku University

PP22* Synthesis, Structure and Magnetic Properties of (Nitronyl Nitroxide)-Nitroxide Diradical with High Coplanarity
○ Tasuku Kumagai, Shuichi Suzuki, Masato Kuratsu, Masatoshi Kozaki, Daisuke Shiomi, Kazunobu Sato, Takeji Takui, Keiji Okada
Graduate School of Science, Osaka City University

PP23* Theoretical Study of the Dynamic Electron-Spin-Polarization via Doublet-Quartet Quantum-Mixed State and the Time-Resolved ESR Spectra of the Quartet High-Spin State
○ Takafumi Matsumoto, Yoshio Teki
Division of Molecular Material Science, Graduate School of Science, Osaka City University

PP24* Basic Study toward Molecular Device using Anthracene-Based Molecules with Functionality Moiety
○ Takashi Hidekuma, Katsuichi Kanemoto, Yoshio Teki
Division of Molecular Material Science, Graduate School of Science, Osaka City University

PP25* Unique Dynamic Electron-Spin Polarization and Dynamics in Photo-Excited Quartet High-Spin State of Acceptor-Donor-Radical Triad System
○ Yohei Takemoto, Yoshio Teki
Division of Molecular Material Science, Graduate School of Science, Osaka City University
PP26* An Electronic Structure of a Weakly Exchange-Coupled Biradical System As Studied by Pulsed Electron Spin Transient Nutation Spectroscopy
○ Kazuki Ayabe,1,4 Kazunobu Sato,1,4 Tomoaki Ise,1,4 Shinsuke Nishida,1,4 Kenji Sugisaki,1,4 Shigeaki Nakazawa,1,4 Yasushi Morita,2,4 Kazuo Tyota,1,4 Daisuke Shiomi,1,4 Masahiro Kitagawa,3,4 and Takeji Takui1,4
1Graduate School of Science, Osaka City University; 2Graduate School of Science, Osaka University; 3Graduate School of Engineering Science, Osaka University; 4JST-CREST

PP27* Synthesis and Structural Change of Zn-porphyrins Possessing Metal Ligands in the Flexible Chains: Control of Binding Constant of Axial Ligands by Metal Complexation
○ Erika Hashimoto, Mutsumi Katou, Masatoshi Kozaki, Shuichi Suzuki, Keiji Okada
Graduate School of Science, Osaka City University

PP28 Construction of nanoscale shape-persistent covalent assembly using Dendrimers with Rigid Backbones
○ Masatoshi Kozaki, Shiro Morita, Shuichi Suzuki, Keiji Okada
Graduate School of Science, Osaka City University