

**The 23<sup>rd</sup> International SPACC Symposium**  
**– Functional complexes and their new applications –**

**The 1<sup>st</sup> International RINS Symposium**

**November 21 to November 23, 2016**

**Okayama, Japan**

**Second Circular**

**Organized by**

**The Society of Pure and Applied Coordination Chemistry  
and**

**Okayama University of Science**



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**SCIENCE  
DREAM  
GARDEN**

**岡山理科大学**  
OKAYAMA UNIVERSITY OF SCIENCE

The Society of Pure and Applied Coordination Chemistry and the Organizing Committee of the 23<sup>rd</sup> International SPACC Symposium and the 1<sup>st</sup> International RINS Symposium appreciate very much your interest in the Conference which will be held in Okayama University of Science in the term November 21 to November 23, 2016.

This circular contains information on program of the conference and travel to the Okayama University of Science.

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## SCIENTIFIC PROGRAM

The Scientific Program will include plenary lectures, invited lectures, oral and poster presentations. The official language of the Symposium is English. Registration, all lectures and the oral and poster presentations will be held at Okayama University of Science.

All posters will be placed on the viewing boards from the Monday morning and will therefore be available for viewing during coffee breaks and lunch for the duration of the conference. A board (approximately 90 cm width, 160 cm height) will be available for posting each presentation.

Monday, 21 November, 2016

8:00 Registration  
8:50 Opening Ceremony

Chairperson: Takanori Nishioka

9:00 - 9:50 PL1 James Wright (University of Auckland)  
Smart Catalytic Films for Water Purification

Chairperson: Yuji Mikata

9:50 - 10:40 PL2 Christian Hartinger (University of Auckland)  
Targeted Therapy and Target Identification for Organometallic  
Anticancer Agents

10:40 - 11:00 Coffee Break

Chairperson: Haruo Akashi

11:00 - 11:25 L01 Takayoshi Suzuki (Okayama University)  
Group 10 Metal Complexes Bearing 2-Methyl- or  
2-Phenyl-8-diphenylphosphinoquinoline

11:25 - 11:50 L02 Kenji Matsumoto (Kochi University)  
Application of Artificial Microbial Siderophores as Iron Supply Agents  
for Plant

11:50 - 12:15 L03 Masahiro Mikuriya (Kwansei Gakuin University)  
Chain Compounds Based On Copper(II) Acetate

Lunch

12:15 - 13:30

Chairperson: Minoru Mitsumi

13:30 - 14:20      PL3      Lahcène Ouahab (Rennes1 University)  
Lanthanides-TTF Complexes Displaying Single Molecule Magnet  
Behaviour and Luminescence

Chairperson: Toshifumi Satoh

14:20 - 14:45      L04      Akihiro Orita (Okayama University of Science)  
Syntheses of Sondheimer-Wong Dienes and Their Transformation to  
Diarenopentalenes

14:45 - 15:10      L05      Yukinari Sunatsuki (Okayama University)  
Oxidation Reactions and Magnetic Properties of Co(II) Complexes with  
Strand-Type Hexadentate Ligands Having Thioether-Amidato-Pyridyl  
Donor Set

15:10 - 15:35      L06      Toshiaki Tsukuda (University of Yamanashi)  
Luminescent Mechanochromic System of Ag(I) Complexes Containing  
Diphosphine Ligands

15:35 - 15:55      Coffee Break

Chairperson: Hideki Hashimoto

15:55 - 16:20      L07      Minoru Mitsumi (Okayama University of Science)  
Proton Order–Disorder Phenomena in a Hydrogen-Bonded  
Rhodium– $\eta^5$ -Semiquinone Complex: A Possible Dielectric Response  
Mechanism

16:20 - 16:45      L08      Yuji Mikata (Nara Women's University)  
Quinoline–Based Molecular Design of Cd<sup>2+</sup>–Specific Fluorescent  
Probes

16:50 - 17:00      Award Ceremony

Chairperson: Motowo Yamaguchi

17:00 - 17:50      AL      Toshifumi Satoh (Hokkaido University)  
Precise Synthesis of Architecturally Complex Polymer using  
Copper Complex Catalyst

18:30 - 20:00      Banquet

Tuesday, 22 November, 2016

Chairperson: Takayoshi Suzuki

9:00 - 9:50      PL4      Tamotsu Takahashi (Hokkaido University)  
“Merry-Go-Round Reaction”  
Travelling of Carbon Atoms in Organic Molecules on Titanium via  
Reversible Carbon-Carbon Bond Cleavage Reaction

Chairperson: Shigenobu Yano

9:50 - 10:40      SL1      Motowo Yamaguchi (Tokyo Metropolitan University)  
Photofunctional Ruthenium Complexes: Catalyst,  
Switching, and Light-harvesting Host

10:40 - 11:00      Coffee Break

Chairperson: Yukinari Sunatsuki

11:00 - 11:25      L09      Takanori Nishioka (Osaka City University)  
How the Arrangement of Two NHC Moieties in Tridentate Pincer  
Ligands of Pd Complexes Affects Their Catalysis in Suzuki-Miyaura  
Cross-Coupling in Water

11:25 - 11:50      L10      Haruo Akashi (Okayama University of Science)  
Synthesis and Catalytic Activity of Cobalt(II) Complexes of  
Fluorochlorin Derivatives

Lunch

11:50 - 13:00

Poster Session

13:00 - 14:45

P01      Yuri Maeda (Nagoya Institute of Technology)  
Hydrogen Evolution Using  $M_2M'$  Type Heterometallic Trinuclear Complexes with Triply  
Bridging Chalcogenido Ligands as Electrochemical Catalysts

P02      Kumi Naito (Nagoya Institute of Technology)  
Specific Electrochemical Response of Hydroquinone at 2-Aminoethanethiol Modified Gold  
Electrode

- P03 Keisuke Kawamoto (Kanazawa University)  
Syntheses of Mo<sub>3</sub>S<sub>4</sub> Clusters with Thiourea Derivatives as an Ancillary Ligand
- P04 Tsubasa Tanaka (Okayama University)  
Multinuclear Iron(II) Complexes with Bbis-bidentate Type Schiff Base Ligands Containing Two Imidazole Groups
- P05 Yuki Horino (Okayama University)  
Complete Spontaneous Resolution of Trinuclear Complexes with Tripodal Schiff Base Ligands
- P06 Haruka Hosoda (Okayama University)  
Synthesis and Structures of Supramolecular Assemblies Composed of Cyclic Tetranuclear Cp\*Rh<sup>III</sup> Unit
- P07 Rina Ogawa (Okayama University)  
Racemization Reaction of Transition Metal Complexes with Schiff Base Ligand Derived from L-Histidine Methyl Ester
- P08 Keita Hyodo (Okayama University)  
Development of Dibenzoanthradithiophene Derivatives: Synthesis, Characterization, and Application to Organic Field-Effect Transistors
- P09 Kodai Watanabe (Hokkaido University)  
Synthesis of Single-Chain Nanoparticles via Ru-catalyzed Intramolecular Olefin Metathesis
- P10 Kohei Honda (Hokkaido University)  
Synthesis of Cage-Shaped Polymers by Ru-Mediated Intramolecular Consecutive Cyclization
- P11 Yuriko Matsumura (Tokyo Healthcare University)  
Evaluation of the Elimination Ability of Amino Acids for Hydroxyl Radicals, Singlet Oxygen, and Superoxide Anion Radicals
- P12 Kaiya Takano (Tokyo Healthcare University)  
Bactericidal Effect and Cytotoxicity of Hydrogen Peroxide
- P13 Ryosuke Monju (Osaka City University)  
Build-up Syntheses and Characterization of Trinuclear Sulfido Complexes Containing Three Different Metal Ions



- P14 Kentaro Minami (Osaka City University)  
Synthesis and Property of a Nickel Complex with a Bis-NHC Ligand Having Two Sugar Moieties
- P15 Yuki Toya (Osaka City University)  
Hydrosilylation of Alkene Mediated by an Iron Complex Bearing an Iminobipyridine Ligand
- P16 Nao Yukihiro (Kwansei Gakuin University)  
Energy-transfer Efficiency of Fucoxanthin Reconstituted into the Light-harvesting 1 Complex from a Purple Photosynthetic Bacterium *Rhodospirillum rubrum* G9+
- P17 Shota Seto (Kwansei Gakuin University)  
Isolation and Purification of Capsanthin from Red Paprika (*Capsicum annuum* L.) and its Application to the Advanced Spectroscopic Measurements
- P18 Satoshi Hosoya (Kwansei Gakuin University)  
Structures and Magnetic Properties of Four-coordinate Cobalt(II) Complexes with N–O<sup>−</sup> type Bidentate Ligands
- P19 Masataka Omote (Kwansei Gakuin University)  
Molecular Assembly in Tetranuclear Vanadium Complexes with 2,6-Bis(hydroxymethyl)-4-methylphenol
- P20 Satoshi Iwatsuki (Konan University)  
Coordination Chemistry of Ag(I) Complexes with Acyclic Monoazatetrathioethers: Correlation between Coordination Structures and Extraction Behaviors
- P21 Kozo Fukumoto (University of the Ryukyus)  
Bioactivities of Fourth-Period Metal Complex in Cultured L6 Myotubes
- P22 Akihiro Orita (Okayama University of Science)  
1,3,6,8-Tetra(trimethylsilylethynyl)pyrene: Stimuli-response in the Solid State
- P23 Takanori Nishida (Okayama University of Science)  
Dual Emission and Mechanofluorochromism of a V-shaped p-System: Disulfonyl-substituted Dibenzocyclooctatetraenes

## Young Scientists' Session

Chairperson: Kozo Fukumoto

15:00 - 15:20      L11      Philipus N. Hishimone (Kogakuin University)  
Fabrication of Cu(I) Oxide Thin Film by Using a Spray Method of an Aqueous Solution Containing a Cu(II) Complex

15:20 - 15:40      L12      Shuhei Nishinaga (Okayama University)  
Theoretical and Experimental Studies upon Zirconacycle Formation by the Reaction of Zirconacyclopentane with Alkynylboronates or Alkynylsilanes

15:40 - 16:00      L13      Kazumasa Hayasaka (Osaka City University)  
Design of Iron Catalyst for Hydrosilylation of Olefin

16:00 - 16:20      L14      Yosuke Imanaka (Osaka City University)  
Development of Palladium Complexes Bearing Sugar- Incorporated N-Heterocyclic Carbene Pincer Ligands and Their Application in Catalysis in Water

16:20 - 16:40      Coffee Break

16:40 - 17:00

Student Lecture Award and Poster Award Ceremony

17:00 -

Closing Ceremony

Wednesday, 23 November, 2016

For further discussion and future collaborations...

Okayama University of Science Campus and Laboratory Tours

## **TRAVELLING**

All information which you need can be available form the following web-site;

<http://www.ous.ac.jp/english/access/>