

**Osaka City University International Workshop on Molecular Science**  
**November 6, 2003**

13 : 15    **Opening**    (Professor Hiroshi Tsukube)

***Invited Lecture Session I***    (Chair: Professor Akio Ichimura)

13 : 30    Kim A. Burkov, “Metal Ion in Aqueous Solution”

14 : 00    ***Poster Presentation Session I***    (50 minutes: The odd number posters)

***Invited Lecture Session II***    (Chair: Professor Isamu Kinoshita)

14 : 50    Setsuhisa Tanabe, “Design of Glass Materials for Optical Amplifier in  
Broadband Telecommunication”

15 : 20    Masatoshi Kanesato, “Architecture of Lanthanide Complexes: Molecular  
Loops, Lariats, Tweezers, and Pockets Controlled by Self-  
Assembly of Schiff Base Ligands”

15 : 50    ***Poster Presentation Session II***    (50 minutes: The even number posters)

***Invited Lecture Session III***    (Chair: Professor Hidekazu Doe)

16 : 40    Clement Hill, “Thermodynamic Studies of the Extraction of Am(III) and  
Eu(III) by Alkyl-BTPs”

17 : 10    Jiri Rais, “Principles of Solvent Extraction of Electrolytes”

***Poster Award Ceremony & Closing***    (Professor Hiroshi Tsukube)

# OCU International Workshop on Molecular Science

- 1 **Transmission Probability of Quantum Dot Embedded in AB Rings**  
Satoshi Soya, Yoshihide Tanaka, and Akira Oguri
- 2 **Synthesis of a New Series of Tripodal Ligands and Their Applications in Anion Sensing with Luminescent Lanthanide Complexes**  
Hiroshi Tsukube, Yumiko Kataoka, Hiroyuki Miyake, and Satoshi Shinoda
- 3 **Catalytic Oxidation of Novel Diiron(III) Complexes Supported by Axially Chiral Ligand**  
Takayuki Nagataki, Yoshimitsu Tachi, and Shinobu Itoh
- 4 **The Model Compound of Novel Quinone Cofactor CTQ (Cysteine Tryptophylquinone) of Quinohemoprotein Amine Dehydrogenase**  
Yoko Murakami, Yoshimitsu Tachi, and Shinobu Itoh
- 5 **Reactivity of Phenoxyl Radical-Metal Complexes**  
Haruna Hattori, Yoshimitsu Tachi, and Shinobu Itoh
- 6 **Synthesis of New Dicopper(I) Complexes and Their Dioxygen activation Supported by Novel Pentapyridine Dinucleating Ligands**  
Kazuki Aita, Yoshimitsu Tachi, Fumito Tani, Yoshinori Naruta, Shinobu Itoh
- 7 **Anion Sensing with Lanthanide Tris(beta diketonate) Complexes: Effects of Diketonate Ligand on Anion Selectivity**  
Hiroshi Tsukube, Aki Onimaru, and Satoshi Shinoda
- 8 **Resonance Raman Studies of Porphycenes and Iron Porphycenes**  
Rabbani M. Gulam, Tetsushi Higashida, Toshio Matsushita, and Junji Teraoka
- 9 **Synthesis and Structure of Phosphiteboryl Mo Complexes - Mo-B Covalent Bond Formation -**  
Masaharu Ohba, Katsuhiko Miyoshi, and Hiroshi Nakazawa
- 10 **Organic Triradicals Based on Nitronyl Nitroxide and TEMPO Radical Components as Models for Single-Component Organic Molecule-Based Ferrimagnetics**  
Chika Kaneda, Tomoaki Ise, Daisuke Shiomi, Kazunobu Sato, and Takeji Takui
- 11 **Electronic and Molecular Structures of Calix[4]arene-Based Nitroxide Radicals as Studied by CW and Pulsed ESR Spectroscopy**  
Takatoshi Sawai, Kazunobu Sato, Daisuke Shiomi, Kazuo Toyoya, Takeji Takui, Qi Wang, Jia-Song Wang, Yong Li, and Guo-Shi Wu
- 12 **Electrochemistry of Trinuclear Molybdenum 8-Quinolinolato Complex**  
Ryoko Santo, Akio Ichimura, Genta Sakane, and Takashi Shibahara
- 13 **The Absolute Signs of the Fine Structure Parameters of the Exited Triplet States and Polyanionic High-spin States of Fullerene C60 and C70**  
Nobuyuki Mori, Kozo Fukui, Shigeaki Nakazawa, Kazuo Toyota, Kazunobu Sato, Daisuke Shiomi, and Takeji Takui
- 14 **Apparent Dipole Moments of Polyoxyethylene Glycol Monodecyl Ether and 1-Decanol in n-Alkanes Determined at 298.15 K**  
M. Hefnawy and R. Tanaka
- 15 **Kaleidoscopic Configuration Change of Chiral Co(II) Complexes**  
Hiroyuki Miyake, Kana Yoshida, Hideki Sugimoto, and Hiroshi Tsukube
- 16 **C-C Bond Cleavage of Acetonitrile Catalyzed by an Iron Complex**  
Kouji Kamata and Hiroshi Nakazawa
- 17 **Relative Apparent Molar Enthalpies of (Aerosol OT + r.H<sub>2</sub>O) in Decane Accompanied with a Characteristic Formation of W/O Microemulsion**  
K. Sameshima, R. Tanaka, K. Igarashi, and H. Ooshima
- 18 **Resonance Raman Study of Highly Reduced Hyperporphyrins**  
Hirohito Ishimaru, Naoki Nakatani, and Junji Teraoka
- 19 **Separation of Phenols Suspected as Endocrine Disruptors by Capillary Electrophoresis**  
Sahori Takeda, Kenji Chayama, Keiichi Fukushi, and Shin-ichi Wakida
- 20 **Interaction between Ionic Surfactant and Bisphenol A in the Micelle**  
Osamu Kosaka, Pankaj Sehgal, and Hidekazu Doe
- 21 **1,2-Bis[(4-phenyl and 4-biphenylpyridinio)methyl]-benzene Dications: Their Unprecedented Selective Complexation with H<sub>2</sub>PO<sub>4</sub><sup>-</sup>**  
Seizo Tamagaki and Hideyuki Gono
- 22 **Organic Intercalation System and its Application to Design of Functional Materials**  
Shinya Oshita and Akikazu Matsumoto
- 23 **Synthesis of Degradable Polymers by Radical Alternating Copolymerization of Several Diene Monomers with Oxygen**  
Shuji Taketani and Akikazu Matsumoto
- 24 **Degradation of Gels obtained from Diene Monomers and Oxygen in the presence of Horseradish Peroxydase (HRP)**  
Yoji Takahashi and Akikazu Matsumoto

- 25 Synthesis and Characterization of Thiacalix[3]pyridine Rh Complexes**  
Onishi Yusuke, Takanori Nishioka, and Isamu Kinoshita
- 26 Interaction between Naked Platinum Nanocluster and Succharides**  
Shigeo Kinugasa, Takanori Nishioka, Isamu Kinoshita, Shigeki Shimizu, and Hirofumi Tsuji
- 27 Sugar Attached Polypyridinepolysulfide Ligands**  
Toshihiro Yano, Rika Tanaka, Naohiro Enomoto, Yuko Sugai, Takanori Nishioka, Isamu Kinoshita, and Sigenobu Yano
- 28 New Macrocyclic Ligands toward Electric Luminescence**  
Naohiro Enomoto, Rika Tanaka, Toshihiro Yano, Takanori Nishioka, and Isamu Kinoshita
- 29 Formation of Various Cu(I) Complexes with Thiacalix[3]pyridine Ligand**  
Akihisa Hamazawa, Rika Tanaka, Shinichi Hattori, Masami Tougesaka, Toshio Matsushita, Isamu Kinoshita, Takanori Nishioka, Kiyoshi isobe, and L. James Wright
- 30 Reaction of Dinuclear Iridium Disulfide Complex**  
Hiroaki Kitayama, Takanori Nishioka, Isamu Kinoshita, and Kiyoshi Isobe
- 31 Theoretical Analysis for Electronic States from Halogen-Substituted Alkylcarbenes by ab initio MO Approach**  
Kenji Sugisaki, Kazuo Toyota, Kazunobu Sato, Daisuke Shiomi, and Takeji Takui
- 32 Acrylonitrile Polymerization Promoted by Phosphorus Compound**  
Hiroshi Nakazawa, Shingo Yoshihara, and Takafumi Kawasaki
- 33 Pseudo Jahn-Teller Distortion of Co(II)octaethylporphyrin as Studied by Single-Crystal ESR/<sup>14</sup>N-ENDOR Spectroscopy**  
Naoki Yokokura, Hideto Matsuoka, Kazunobu Sato, Daisuke Shiomi, Kazuo Toyota, and Takeji Takui
- 34 Synthetic Study of Tetrodotoxin**  
Tadashi Hirose, Teturo Shinada, and Yasufumi Ohfuné
- 35 Selectivity Enhancement on Silica Modified Electrode Using Potentiostatic Treatment**  
Yi Hui and Ichimura Akio
- 36 Preparation and Properties of Quinoid Derivatives with Imidazolidene Terminals**  
Asuka Isoyama, Masatoshi Kozaki, and Keiji Okada
- 37 Synthesis and Magnetic Properties of Radical Ion Magnetic-Metal-Salts of Radical Substituted Dihydrophenazine Cation**  
Hirotaka Takeda, Toshihiro Okamoto, Masatoshi Kozaki, Daisuke Shiomi, Kazunobu Sato, Takeji Takui, and Keiji Okada
- 38 Studies into Synthesis of Halitulin, a Novel Cytotoxic Bisquinolinylypyrrole Alkaloid**  
Etsumi Wada, Hiroyuki Hirakawa, Yoshinosuke Usuki, and Hideo Iio
- 39 Solution-Phase ESR Spectra and Solid-State Magnetic Properties of a Model System Single-Component Organic Molecule-Based Ferrimagnetics**  
K. Maekawa, T. Ise, D. Shiomi, K. Sato, and T. Takui
- 40 Selectivity of Ferrimagnetic and Diamagnetic Ground States for a Novel Organic Heterospin Chain**  
Yuki Kanzaki, T. Ise, D. Shiomi, K. Sato, and T. Takui
- 41 Magnetic Properties of Single-Component Organic Ferrimagnetic Materials Possessing a Ground-State Singlet Biradical Entity**  
Tomoaki Ise, Daisuke Shiomi, Kazunobu Sato, and Takeji Takui
- 42 Organic High-Spin Systems; Synthesis, Electrochemical and ETSF Studies of a Series of Tetraaryl *m*-phenylenediamines**  
Masafumi Yano
- 43 Synthesis and Properties of Triarylamine Derivatives with Coordination Sites and Their Metal Complexes**  
Kazutoshi Inoue
- 44 Preparation and characterization of Di-, Mono-, and Des-oxo Molybdenum Dithiolene Complexes**  
Makoto Tarumizu, Hideki Sugimoto, Hiroyuki Miyake, and Hiroshi Tsukube
- 45 Electrode Reactions of Sulfur/Oxygen-Bridged Triangular Trinuclear Molybdenum Clusters**  
Hideaki Takagi, Rika Kyan, and Takashi Shibahara
- 46 Palladium-Catalyzed Carbon-Carbon Bond Forming Reaction of Optically Active  $\alpha$ -Acyloxytrialkylsilanes**  
Takeshi Yamada, Kazuhiko Sakaguchi, Yasufumi Ohfuné
- 47 Synthetic Study of  $\gamma$ -Substituted CCG Analogues**  
Kyoko Tanimura, Teturo Shinada, Yasufumi Ohfuné
- 48 Synthetic Study of Amathaspiramide F**  
Yusuke Watanabe, Masahiro Yamamoto, Kazuhiko Sakaguchi, Yasufumi Ohfuné
- 49 Synthetic Study of 5-Deoxytetrodotoxin**  
Yoshinori Tamatani, Teturo Shinada, Yasufumi Ohfuné