# Symposium Program

## July 30 (Monday), 2007

8.50 Opening Remarks: Teruo Shinmyozu

| Scientific Program | |
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| | **July 30, 2007**<br>**Morning Session** |
| 8:30- | PC connection time |
| | Chairman: Takehiko Yamato |
| 9:00 | **I-B1** Molecular Designing of Covalently Link Molecular Tubes and Container Type Molecules from Cyclophanes<br>Yogesh Sangvikar, Taeko Tsubone, Shin-ichiro Kato, Tetsuo Iwanaga, Teruo Shinmyozu<br>*Institute for Materials Chemistry and Engineering (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| 9:15 | **I-B2** Formation of A Cyclic Aniline Trimer via Self-Complementary N–H···π Interactions by Pyromellitic Diimide-Based Macrocycle<br>Shin-ichiro Kato, Takeshi Nakagaki, Teruo Shinmyozu<br>*Institute for Materials Chemistry (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| 9:30 | **I-A1** Preparation, Properties and Application of Small-sized Cyclophanes<br>Akihiko Tsuge<br>*Department of Applied Chemistry, Kyushu Institute of Technology, Japan, Institute for Materials Chemistry and Engineering (IMCE), Kyushu University* |
| 9:55 | **PL-1** Application of SET-Promoted Photocyclization Reactions for the Construction of Polyfunctional Macrocyclic Compounds: Bis-Crown Ethers<br>Ung Chan Yoon and Dae Won Cho<br>*Department of Chemistry(BK 21), Pusan National University, Busan 609-735, Korea* |
| 10:40-<br>10:55 | break・PC connection time |
| | Chairman: Hiroyuki Furuta |
| 10:55 | **I-A2** Metalation of Azulene<br>Toshihiro Murafuji, A. F. M. Mustafizur Rahman, Kei Kurotobi, Toshihisa Shibasaki, and Yoshikazu Sugihara<br>*Graduate School of Medicine, Applied Molecular Bioscience, Yamaguchi University* |
| 11:20 | **PL-2** Radially-conjugated Aromatic Ring Carbo-mers<br>Remi Chauvin<br>*Laboratoire de Chimie de Coordination, UPR CNRS, France* |
| 12:05-<br>13:10 | **Lunch** |

| | **July 30, 2007**<br>**Afternoon Session** |
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| 12:45 | PC connection time |
| | Chairman: Remi Chauvin |
| 13:10 | **I-B3** Optical and Catalytic Properties of N-Fused Porphyrin Derivatives<br>Shinya Ikeda, Tomoyuki Kimura, Keitaro Fujino, Motoki Toganoh, Hiroyuki Furuta<br>*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |
| 13:25 | **I-A3** Construction of Unique Architectures through Rotation of Pyrrole Ring in Tetrapyrrolic Macrocycles<br>Motoki Toganoh<br>*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |
| 13:50 | **I-B4** Molecular Design to Monometallic Cobalt(II) Single-molecule Magnet Consisting of 2p-3d Heterospin System<br>Shinji Kanegawa, Satoru Karasawa and Noboru Koga<br>*Graduate School of Pharmaceutical Sciences, Kyushu University* |
| 14:05 | **I-A4** Mono- and Dinuclear Single-molecule Magnets in Heterospin Systems<br>Satoru Karasawa, Daisuke Yoshihara, and Noboru Koga<br>*Graduate School of Pharmaceutical Sciences, Kyushu University* |
| 14:30 | **I-A5** Highly Selective Solid-State Photocycloaddition Reactions of 2-Pyrones with Unsaturated Compounds<br>Tetsuro Shimo, Weidong Wang, Kenichi Somekawa<br>*Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Kagoshima University* |
| 14:55- | break・PC connection time |
| | Chairman: Ung Chan Yoon |
| 15:10 | **I-A6** Mechanistic Study of Photochromism of N-Salicylideneanilines in the Crystal State<br>Toshio Kawato, Masatsugu Taneda, Kiichi Amimoto, and Yoshio Ito<br>*Department of Chemistry, Faculty of Sciences, Kyushu University* |
| 15:35 | **I-A7** Non-destructive Read-out of Photochromic Reaction of [2.n]Metacyclophan-1-enes<br>Michinori Takeshita<br>*Department of Chemistry and Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| 16:00 | **I-B5** Photochromism of multi-component diarylethene crystals<br>Lumi Kuroki, Shizuka Takami, and Masahiro Irie<br>*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Department of Environmental Materials Engineering, Niihama National College of Technology, Department of Chemistry, Rikkyo University* |
| 16:15 | **I-B6** Conductance Photoswitching of 2-Thienyl Type Diarylethene-Gold Nanoparticle Network<br>Hidehiro YAMAGUCHI, Masahiro IRIE, Kenji MATSUDA<br>Department of Chemistry and Biochemistry Graduate School of Engineering Kyushu University |
| 16:30 | **I-B7** Self-Assembly of Photochromic Diarylethenes with Amphiphilic Side Chains: Temperature-Light Dual Control of Supramolecular Environment in Water<br>Takashi HIROSE, Masahiro IRIE, Kenji MATSUDA<br>*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |
| 16:45- | break・PC connection time |
| | Chairman: Kenji Matsuda |
| 16:55-17:40 | **PL-3** Alternating Divinylarene-Silylenene Copolymers-Synthesis and Photophysics<br>Tien-Yau Luh<br>*Department of Chemistry, National Taiwan University, Taipei, Taiwan* |
| 19:00-21:00 | **Banquet** |

## July 31 (Tuesday), 2007

| Scientific Program | |
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| | **July 31, 2007**<br>**Morning Session** |
| 8:30- | PC connection time |
| | Chairman: Hai Whang Lee |
| 9:00 | **I-A8** Synthesis and Characterization of Artificial Allosteric Receptors Derived from Calix[n]arenes<br>Shofuir Rahman, Akina Yoshizawa, and Takehiko Yamato<br>*Department of Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| 9:25 | **I-A9** Synthesis and Characterization of Functionalized Cyclophanes as a Multivalent Host and Carrier<br>Osamu Hayashida, Masaki Uchiyama, Naoyuki Ogawa<br>*Institute for Materials Chemistry and Engineering (IMCE), Kyushu University; PRESTO, JST* |
| 9:50 | **I-B8** Supramolecular Crystalline Architecture Constructed by Aminopyrimidinones: From 1D Chain with Regulated Hydration to Hexameric Bundle in Polymorph<br>Kenta Goto and Teruo Shinmyozu<br>*Institute for Materials Chemistry and Engineering (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| 10:05 | **I-A10** Multi-component Organic Alloys and Topochemical Polymerizationi in Organic Layered Structure of 1-Naphthylmethylammonium Carboxylates<br>Kazuki Sada, Yuta Goto, and Seiji Shinaki<br>*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |
| 10:30-<br>10:45 | break・PC connection time |
| | Chairman: Noboru Koga |
| 10:45 | **I-A11** Cyclic Porphyrin Trimers as Precursors for Self-assembled Organic Nanotubes via Hydrogen Bonds<br>Fumito Tani, Hirofumi Nobukuni, Yuichi Shimazaki and Yoshinori Naruta<br>*Institute for Materials Chemistry and Engineering (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| 11:10 | **PL-4** Two-Photon Probes for Bioimaging<br>Hwan Myung Kim, Bo Ra Kim, Myung Jin Ahn, Mun Sik Seo, and Bong Rae Cho<br>*Department of Chemistry, Korea University, 1-Anamdong, Seoul 136-701, Korea* |
| 11:55-<br>13:00 | **Lunch** |

| Scientific Program | |
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| | **July 31, 2007**<br>**Afternoon Session** |
| | Chairman: Masaaki Mishima |
| 13:00 | **I-A12** The Chemistry of Thiophene *S*-oxides and related Compounds<br>Thies Thiemann,[a] David Walton,[b] Ana Oliveira Brett,[c] Jesus Iniesta,[d]<br>Frank Marken,[e] and Yuan-qiang Li[a]<br>[a]*Interdisciplinary Graduate School of Engineering Sciences, Kyushu University;*<br>[b]NES, *Coventry University, UK;*<br>[c]*Faculty of Science, University of Coimbra, Portugal;*<br>[d]*Department of Physical Chemistry, University of Alicante, Spain;*<br>[e]*University of Bath, UK.* |
| 13:25 | **I-A13** Heteroatom Effects on the Reactivity of Cyclopentane-1,3-Diyls<br>Manabu ABE,* Akinobu Takegami, and Takeshi Nakamura<br>*Department of Chemistry, Graduate School of Science, Hiroshima University* |
| 13:50 | PL-5 Deuterium Kinetic Isotope Effects on the Anilinolysis of Chlorophosphates, Chlorophosphinates, and Phosphonochloridothionates<br>Hai Whang Lee<br>*Department of Chemistry, Inha University, Incheon 402-751, Korea* |
| 14:35-14:50 | break |
| 14:50-16:30 | **Poster Session** |
| 16:30-16:40 | break |
| 16:40-17:00 | Closing Remarks: Masaaki Mishima |

# Poster Presentations

## July 31 (Tuesday), 2007 14:50 - 16:30

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| **P1** | Nucleophilic Reactions of Vinyl Cations<br>Tesshu Nakahara and Masaaki Mishima<br>*Department of Physics and Chemistry of Condensed Matters, Graduate School of Sciences and Institute for Materials Chemistry and Engineering (IMCE), Kyushu University* |
| **P2** | Gas phase Basicities of Acetophenones, Anilines, and Pyridines toward Dicoordinated Boron Cation<br>Shuhei Itoh and Masaaki Mishima<br>*Department of Chemistry and Physics of Condensed Matters, Graduate School of Sciences, and Institute for Materials Chemistry and Engineering (IMCE), Kyushu University.* |
| **P3** | Substituent Effect on the Gas Phase Acidity of Acetophenone Oxime: Experimental and Theoretical Studies<br>Md. M. R. Badal and Masaaki Mishima<br>*Department of Chemistry and Physics of Condensed Matters, Graduate School of Sciences, and Institute for Materials Chemistry and Engineering (IMCE), Kyushu University.* |
| **P4** | Gas-Phase Basicities of Acetophenones toward Lanthanum Cation [$La(OMe)_2^+$]<br>*Soe Than* and Masaaki Mishima<br>*Department of Chemistry and Physics of Condensed Matters, Graduate School of Sciences, and Institute for Materials Chemistry and Engineering (IMCE), Kyushu University.* |
| **P5** | Characterization of Diphenylboron Cation in Solution<br>Yoshiya Nagano,[1] Md. Khabir Uddin,[1] Ryoji Fujiyama,[2] Syun-ichi Kiyooka,[2]<br>Masaaki Mishima,[1] Mizue Fujio,[1] and Yuho Tsuno[1]<br>*[1]Institute for Materials Chemistry and Engineering (IMCE), Kyushu University,*<br>*[2]Department of Material Science, Faculty of Science, Kochi University* |
| **P6** | The Intrinsic (Gas Phase) Acidities of Polyfluorinated Adamantane, Adamantanol, and Some Related Compounds<br>T. Sonoda[1], M. Pasikowska[1], M. Mishima[1], T. Ono[2], H. Fukaya[2], J.-L. M. Abboud[3]<br>*[1]Institute for Materials Chemistry and Engineering (IMCE), Kyushu University,*<br>*[2]AIST-Chubu, [3]Instituto de Química Física Rocasolano, CSIC.* |
| **P7** | Synthesis, Structural Properties and Metal Complexation of Novel Tetrahomodioxacalix[4]arenes<br>Masashii Takimoto, Takashi Kinoshita, and Takehiko Yamato<br>*Department of Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P8** | Synthesis, Structure and Reactivity of Novel Calix[3]benzofurans<br>Ryuji Ueno and Takehiko Yamato<br>*Department of Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P9** | Synthesis and Inclusion Properties of pseudo-Capped Hexahomotrioxacalix[3]arenes Based on Intramolecular Hydrogen Bonding<br>Takashi Aramaki, Shofuir Rahman, and Takehiko Yamato<br>*Department of Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P10** | Syntheses and Structural Properties of the Novel Polycyclic Aromatic Compounds Having High Distortion<br>Hiroshi Okada[1], Tetsuji Moriguchi[1], Mamoru Hashimoto[1], Akihiko Tsuge[1,2]<br>*[1]Department of Applied Chemistry, Kyushu Institute of Technology*<br>*[2]Institute for Materials Chemistry and Engineering (IMCE), Kyushu University* |
| **P11** | Construction of Novel Host Molecules from the Ligand Having the Porphyrin Unit and Their Functionalization<br>Toshiyuki Kunimune[1], Tetsuji Moriguchi[1], Mamoru Hashimoto[1], Akihiko Tsuge[1,2]<br>[1]*Department of Applied Chemistry, Kyushu Institute of Technology*<br>[2]*Institute for Materials Chemistry and Engineering (IMCE), Kyushu University* |

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| **P12** | Crystal Structure and Photoisomerization of [1.1](3,3')Stilbenophanes<br>Tsuyoshi Sawada, Minoru Morita, Kazufumi Chifuku, Yutaka Kuwahara, Hideto Shosenji, Makoto Takafuji, and Hirotaka Ihara<br>*Department of Applied Chemistry, Kumamoto University* |
| **P13** | Synthesis of 11-Azacyclohept[*a*]azulen-3(3*H*)-ones and Related Systems<br>Tomoyuki Ariyoshi,[1] Kazuya Koizumi,[1] Hiroyuki Fujii[2] and Noritaka Abe.[1]<br>*[1]Graduate School of Medicine, Yamaguchi University,*<br>*[2]Science Research Center, Yamaguchi University.* |
| **P14** | A New Efficient Synthesis of 2-Substituted Azulenes Based on a Sulfonyl Group Directed Lithiation<br>Toshihisa Shibasaki, Takeo Oishi, Nobuhiko Yamanouchi, Atushi Kouzaki, Toshihiro Murafuji, A. F. M. Mustafizur Rahman, Kei Kurotobi, and Yoshikazu Sugihara<br>*Graduate School of Medicine, Applied Molecular Bioscience, Yamaguchi University* |
| **P15** | Synthesis of New Pyrazine Derivatives Having Different Circumstances Around Two Nitrogen Atoms<br>Yusaku Eda, Yoshio Ito, and Toshio Kawato<br>*Department of Chemistry, Faculty of Sciences, Kyushu University* |
| **P16** | Synthesis of Polymeric Pd(II) Complexes of Pyrazines with 2,5-Bis(crown-ether) Subunits<br>Fuminori Nakaya, Kiichi Amimoto, Yoshio Ito, and Toshio Kawato<br>*Department of Chemistry, Faculty of Sciences, Kyushu University* |
| **P17** | Synthesis and Photochromic Properties of Polyoxa[2.n]thiophenophan-1-enes<br>Chinatsu Tanaka, Michinori Takeshita<br>*Department of Chemistry and Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P18** | Synthesis and Photochromic Properties of [2.2]Metacyclophan-1-ene (1)<br>Takeshi Nakamura, Takeshi Koga, Syun Maekawa, Michinori Takeshita<br>*Department of Chemistry and Applied Chemistry, Faculty of Science and Engineering, Saga University, Honjo 1, 840-8502, Japan* |
| **P19** | Synthesis and Photochromic Properties of [2.2]Metacyclophane-1-ene (2)<br>Takeshi Koga, Takeshi Nakamura, Syun Maekawa, Michinori Takeshita<br>*Department of Chemistry and Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P20** | Photoreversible Formation of Supramolecular Polymer Containing Diarylethene Photoswitch<br>Takashi Miyazaki, Miyuki Hayashi, Michinori Takeshita<br>*Department of Chemistry and Applied Chemistry, Faculty of Science and Engineering, Saga University* |
| **P21** | Circular Polarization of Fluorescence Emitted from a Supramolecular Complex of Achiral Conjugated Polymers and Neutral Polysaccharides<br>S. Haraguchi[1], M. Numata[1], C. Li[1], M. Fujiki[2], K. Sakurai[3] and S. Shinkai[1]<br>*[1]Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University; [2]Graduate School of Materials Science, Nara Institute of Science and Technology*<br>*[3]Department of Chemical Processes and Environments, Faculty of Environmental Engineering, The University of Kitakyushu* |
| **P22** | Colorimetric Sensing Device via Formation of Solid-state Charge Transfer Complexation for Polyaromatic Hydrocarbons<br>Darshak R. Trivedi, Seiji Shinkai, and Kazuki Sada<br>*Department Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |
| **P23** | Lipophilic Polyelectrolyte Gels as Super-absorbent Polymers for Organic Solvents<br>Toshikazu Ono, Seiji Shinkai, and Kazuki Sada<br>*Department Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University* |

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| **P24** | Preparation of Oligonucleotide Single Stand Carrying TEMPO Radical, Formation of Its Double Strand, and Their Relaxivities<br>Yuichiro Sato, Mariko Aso, Satoru Karasawa, and Noboru Koga<br>*Graduate School of Pharmaceutical Sciences, Kyushu University* |
| **P25** | Preparations of Water-soluble Dendrimers and Linear Polymers with Nitronyl Nitroxide Radicals and Their Relaxivities<br>Hiroyuki Hayashi, Satoru Karasawa, and Noboru Koga<br>*Graduate School of Pharmaceutical Sciences, Kyushu University* |
| **P26** | Supramolecular Assemblies and Redox Modulation of Pyromellitic Diimide-Based Macrocycle via Noncovalent Interactions with Naphthols<br>Shin-ichiro Kato, Teruo Shinmyozu<br>*Institute for Materials Chemistry (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| **P27** | Synthesis, Structure, and Transannular π–π Interaction of Multilayered [3.3]Metacyclophanes<br>Masahiko Shibahara,[1] Motonori Watanabe,[2,3] Tetsuo Iwanaga,[4] Keiko Ideta,[2] Taisuke Matsumoto,[2] and Teruo Shinmyozu[2]<br>*[1]Department of Chemistry, Faculty of Education and Welfare Science, Oita University; .*<br>*[2]Institute for Materials Chemistry and Engineering (ICME), Kyushu University;*<br>*[3]Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University*<br>*[4]Department of Chemistry, Faculty of Science, Okayama University of Science* |
| **P28** | Synthesis, Structure, and Transannular π-π Interaction of Three- and Four-layered [3.3]Paracyclophanes<br>Masahiko Shibahara,[1] Motonori Watanabe,[2,3] Tetsuo Iwanaga,[4] Taisuke Matsumoto,[2] and Teruo Shinmyozu[2]<br>*[1]Department of Chemistry, Faculty of Education and Welfare Science, Oita University,*<br>*[2]Institute for Materials Chemistry and Engineering (ICME), Kyushu University,*<br>*[3]Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University,*<br>*[4]Department of Chemistry, Faculty of Science, Okayama University of Science* |
| **P29** | π-Electron Accepting Macrocycle That Incorporates Cofacially Aligned Pyromellitic Diimide Units: Synthesis, Characterization, and Supramolecular Properties<br>Takeshi Nakagaki,[1,2] Shin-ichiro Kato,[1,2] Teruo Shinmyozu[1]<br>*[1]Institute for Materials Chemistry (IMCE) and [2]Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University,* |
| **P30** | Synthesis of Capsule Molecules via Self-assembly Using Schiff-base Formation<br>Aya Harano,[1,2] Minako Irie,[1,2]Toshiaki Shimasaki,[1,2] Shin-ichiro Kato,[1,2] Tetsuo Iwanaga,[3] Kenta Goto,[1] Teruo Shinmyozu[1]<br>*[1]Institute for Materials Chemistry and Engineering (IMCE) and [2]Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University,*<br>*[3]Department of Chemistry, Faculty of Science, Okayama University of Science* |
| **P31** | RAFT Synthesis and Properties of Doubly and Triply Thermo-responsive Block Copolymers<br>Xuedong Cui, Kenta Goto, and Teruo Shinmyozu<br>*Institute for Materials Chemistry and Engineering (IMCE) and Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University* |
| **P32** | Synthesis, Structural, and Photo-Switchable Properties of Novel Chiral Host Molecules: Axis Chiral BINOL-Appended 2, 2, 2', 2'-Tetramethyl-1, 1'-indanylindanes<br>Toshiaki Shimasaki,[1,2] Shin-ichiro Kato,[1,2] Keiko Ideta,[3] Kenta Goto,[1] Teruo Shinmyozu[1]<br>*[1]Institute for Materials Chemistry and Engineering (IMCE) and [2]Department of Molecular Chemistry, Graduate School of Sciences, Kyushu University*<br>*[3]Institute for Materials Chemistry and Engineering (IMCE)* |