

# Program

## October 24 (Wednesday)

- Chair Toshiaki Enoki and Takehiko Mori
- 13:00 Opening Remarks
- Chair Toshiaki Enoki
- 13:10 - 13:40 <OR1> **Gunzi Saito** and **Toshiaki Enoki**  
Historical Overview on Organic Semiconductors, Conductors, and Electronics
- 13:40 - 14:10 <OR2> **Fred Wudl** (University of California, Santa Barbara)  
An Overview of the Field of Organic Conductors and Electronics: the Role of Sulfur
- 14:10 - 14:40 <OR3> **Reizo Kato** (Riken)  
Single Component Molecular Conductors Based on Metal Dithiolene Complexes
- 14:40 - 14:55 <OR4> **Kunio Awaga** (Nagoya University)  
Molecule-Based Mimics of Carbon Allotropes
- 14:55 - 15:10 <OR5> **Yasushi Morita** and Tsuyoshi Murata (Aichi Institute of Technology)  
Air-stable Neutral Radicals with Condensed Polycyclic Structure and Spin-delocalized Nature
- 15:10 - 15:30 Coffee Break
- Chair Hiroshi M. Yamamoto (Institute for Molecular Science)
- 15:30 - 16:00 <OR6> **Tetsuo Tsutsui** (Kyushu University)  
Organic Electroluminescence: Historical Overview and Future Perspective
- 16:00 - 16:15 <OR7> **Takeshi Komino** (University of Hyogo)  
Introduction of Recent Advances in Molecular Orientation for Organic Electronics
- 16:15 - 16:45 <OR8> **Chong-an Di** (Institute of Chemistry, Chinese Academy of Sciences )  
Thermoelectric Properties of Organic Materials in Enabling Functional Devices
- 16:45 - 17:15 <OR9> **Hiroshi Okamoto** (The University of Tokyo)  
Electronic Phase Control by a Strong Terahertz Electric-Field Pulse in Organic Molecular Solids
- 17:15 - 17:30 <OR10> **Sachio Horiuchi** (AIST)  
Dielectric and Piezoelectric Properties of Strongly Polarized Hydrogen- Bonded Organic Crystals
- 17:30 - Poster & Mixer

## October 25 (Thursday)

- Chair Hiroshi Ito (Nagoya University)
- 09:00 - 09:30 <OR11> **Hisao Ishii** (Chiba University)  
Photoelectron Spectroscopic Studies of Organic Semiconductor Films and Interfaces: Progress for 30 Years with the Growth of Organic Devices
- 09:30 - 10:00 <OR12> **Ingo Salzmann** (Concordia University)  
Interrelation between structure and energetics in doped organic semiconductors
- 10:00 - 10:15 <OR13> **Hiroshi M. Yamamoto** (Institute for Molecular Science)  
Organic Field-Effect-Transistors based on Charge-Transfer Salts
- 10:15 - 10:35 Coffee Break
- Chair Toshiyasu Suzuki (Institute for Molecular Science)
- 10:35-11:05 <OR14> **Narcis Avarvari** (Angers University)  
Chiral conductors based on alkylated EDT-TTF and metal-dithiolene complexes
- 11:05 - 11:20 <OR15> **Takashi Shirahata** (Ehime University)  
Structural Phase Transitions of TTP Conductors
- 11:20 - 11:35 <OR16> **Kazuya Kubo** (University of Hyogo)  
Electrochromic Properties of Thin Film Devices Based on Low-Molecular- Weight Unsymmetrical Platinum Dithiolene Complexes
- 11:35 - 11:50 <OR17> **Hiroyuki Nishikawa** (Ibaraki University)  
Organic Magnetic Semiconductor Based on Paramagnetic Cu(II) Complex Coordinated by TTF Ligands-Application to Thin Film Device
- 11:50 - 13:00 Lunch
- Chair Makoto Inokuchi (Sanyo-Onoda City University)
- 13:00 - 13:30 <OR18> **Kazushi Kanoda** (The University of Tokyo)  
Recent Progress on the issue of Neutral-Ionic Transition in Charge-Transfer Complexes
- 13:30 - 13:45 <OR19> **Takashi Yamamoto** (Ehime University)  
Hidden Ordered States Characteristic of Interchange of MO Levels in Molecule-Based Conductors
- 13:45 - 14:00 <OR20> **Hiroki Akutsu** (Osaka University)  
Anion Polarity-Induced Several Novel Electronic States in Organic Conductors
- 14:00 - 14:15 <OR21> **Akira Ueda** (The University of Tokyo)  
Development of a New Type of Molecular Conductors with Dynamic Hydrogen Bonds
- 14:15 - 14:45 <OR22> **Kazuo Takimiya** (Tohoku University and Riken)  
Control of Packing Structure of Thienoacene-Based Organic Semiconductors: Toward "Artificial Rubrene"
- 14:45 - 15:05 Coffee Break

- Chair Hiroyuki Tajima (University of Hyogo)
- 15:05 - 15:35 <OR23> **Antonio Facchetti** (Northwestern University )  
New Energy, Electronic, and Photonic Devices Based on Unconventional Materials
- 15:35 - 15:50 <OR24> **Tsuyoshi Michinobu** (Tokyo Institute of Technology)  
High Mobility Semiconducting Polymers Based on Benzobisthiadiazole and Its Derivatives
- 15:50 - 16:20 <OR25> **Shin-ichi Kuroda** (Toyota Physical & Chemical Research Institute)  
Electron Spin Resonance Spectroscopy of Charge Carriers in High-Mobility Organic Transistors
- 16:20 - 16:35 <OR26> **Tatsuo Hasegawa** (The University of Tokyo)  
Organic Semiconductors for Advanced Printed Electronics
- Chair Takehiko Mori (Tokyo Institute of Technology)
- 16:35 - 17:05 <OR27> **Hideki Shirakawa**  
Laboratory Works for Kids outside School Hands-on Experiments on Conducting Polymers
- 18:00 - Banquet (Hotel Sun Plaza Seasons)

### October 26 (Friday)

- Chair Hideo Kishida (Nagoya University)
- 09:00 - 09:30 <OR28> **Yoshihiro Iwasa** (The University of Tokyo)  
Electrochemical Interfaces for New Physical Phenomena
- 09:30 - 09:45 <OR29> **Hiroko Tokoro** and Shin-ichi Ohkoshi (The University of Tokyo)  
Thermal Functionality on Phase Transition Material
- 09:45 - 10:15 <OR30> **Kosmas Prassides** (Tohoku University)  
Emergent Electronic Phenomena in All-Carbon  $\pi$ -Electron Molecular Systems
- 10:15 - 10:35 Coffee Break
- Chair Kunio Awaga (Nagoya University)
- 10:35 - 11:05 <OR31> **Hiroshi Kitagawa** (Kyoto University)  
Confined Water Clusters and High Proton Conduction in Synthetic Hydrophobic Nanotubes.
- 11:05 - 11:20 <OR32> **Tomoyuki Akutagawa** (Tohoku University)  
Ferroelectricity and Bowl-to-Bowl Inversion of Trithiasumanene Derivative
- 11:20 - 11:35 <OR33> **Genki Kobayashi** (Institute for Molecular Science)  
High H<sup>-</sup> Conductivity in Novel Oxyhydrides Ba<sub>2-x</sub>Na<sub>x</sub>SrH<sub>1+x</sub>O<sub>3-x</sub>
- 11:35 - 11:50 <OR34> **Makoto Inokuchi** (Sanyo-Onoda City University)  
Red-shifted Photochromism of Diarylethenes Induced by Shear Stress
- 11:50 - 12:00 Closing Remarks
- 13:00 - 16:00 Excursion (Toyota Commemorative Museum of Industry and Technology)

## Poster Presentations October 24, 17:30 - 19:30

- ⟨P1⟩ **Yasuhiro Kiyota** (Tokyo Institute of Technology)  
Structure and Properties of a Novel Charge-Transfer Salt  $\text{Me}_2(\text{SMe})_2\text{TTF-TCNQ}$
- ⟨P2⟩ **Shusaku Imajo** (The University of Tokyo)  
Physical property measurements of organic conductors in pulsed high magnetic fields
- ⟨P3⟩ **Shiori Sugiura** (NIMS)  
Vortices and FFLO phase diagram of layered organic superconductor  $\beta''\text{-(BEDT-TTF)}_2\text{SF}_5\text{CH}_2\text{CF}_2\text{SO}_3$
- ⟨P4⟩ **Daiki Tonouchi** (Nagoya University)  
Negative differential resistance of TTF-TCNQ in its Peierls insulating phase
- ⟨P5⟩ **Kazushi Mizukoshi** (Nagoya University)  
Relationship between the anisotropy of optical conductivity and interdimer transfer integrals in  $k$   
 $\text{-(BEDT-TTF)}_2\text{X}$
- ⟨P6⟩ **Akito Kobayashi** (Nagoya University) Excitonic Instability in the Organic Dirac Electron System  
 $\alpha\text{-(BEDT-TTF)}_2\text{I}_3$
- ⟨P7⟩ **Yukiko Omori** (National Institute of technology, Toyota college)  
Structural Phase Transition from the Metal to the Dirac Fermion State on the BEDT-TTF Triangular Lattice
- ⟨P8⟩ **Takehiro Tani** (Nagoya University)  
Electron Correlation Effect in Massless Dirac Fermion System of Organic Conductor under Perpendicular Magnetic Field
- ⟨P9⟩ **Daigo Ohki** (Nagoya University)  
Resistivity and Optical Gaps in Non-Uniform Charge Order in Organic Dirac Electron system of  
 $\alpha\text{-(BEDT-TTF)}_2\text{I}_3$
- ⟨P10⟩ **Genta Kawaguchi** (Institute for Molecular Science)  
Superconducting Field-Effect Transistors based on Molecular Strongly-Correlated Systems
- ⟨P11⟩ **Kohsuke Kawabata** (Tohoku University and Riken)  
Acenedithiophenediones: a new class electron-deficient  $\pi$ -building blocks

⟨P12⟩ **Naoya Suzuki** (RIKEN)

Structural Effects on Dynamic Polymerization Behavior of Naphthodithiophene Diradicaloids

⟨P13⟩ **Takuya Ogaki** (RIKEN)

Pyrene derivatives modified with small substituents as potential organic semiconductors

⟨P14⟩ **Yang Wang** (Tokyo Institute of Technology)

High-Performance N-Channel Organic Transistors Using High-Molecular-Weight Electron-Deficient Copolymers Containing Benzobisthiadiazole Derivatives

⟨P15⟩ **Toshiki Higashino** (AIST)

Layered-crystalline organic semiconductors based on BBBT, tailored by introducing long alkyl chains: Synthesis, structures, and TFT properties

⟨P16⟩ **Dongho Yoo** (Tokyo Institute of Technology)

Organic Field-Effect Transistors based on Bisthienoisatin Analogs

⟨P17⟩ **Ryo Sanada** (Tokyo Institute of Technology)

Ambipolar transistors based on charge-transfer complexes of perylene and DCNQI derivatives

⟨P18⟩ **Tomofumi Kadoya** (University of Hyogo)

Investigation of Transfer Integrals in the Radical-Cationic BTBT-type Semiconductors

⟨P19⟩ **Shota Takahashi** (Kyoto University)

Singlet fission dynamics in amorphous rubrene thin films embedded in optical microcavities

⟨P20⟩ **Hiroyuki Tajima** (University of Hyogo)

Determination of charge injection barrier at organic semiconductor/metal interface using accumulated charge measurement

⟨P21⟩ **Satoshi Matsuoka** (University of Tokyo)

Visualization of Local Carrier Transport in Organic Thin-Film Transistors by Time-Resolved Microscopic Gate-Modulation Imaging

⟨P22⟩ **Dongwei Zhang** (University of Tokyo )

A Strategy for Developing Isotropic Charge Transport Mobility in Anthracene Derivatives with Multi-functions

- ⟨P23⟩ **Hiroshi Ito** (Nagoya University)  
Simultaneous Band-Filling and Band-Width Control on a Spin Liquid Candidate Mott Insulator by Electric Double Layer Transistor under Pressure
- ⟨P24⟩ **Shunto Arai** (The University of Tokyo)  
Semiconductive Single Molecular Bilayers Realized Using Geometrical Frustration
- ⟨P25⟩ **Hiroaki Iguchi** (Tohoku University) Porous Molecular Conductors Synthesized by Using  $\pi$ - $\pi$  Interaction and Coordination to Metal Ion
- ⟨P26⟩ **Yang Wu** (Nagoya University)  
Covalent organic framework based materials for energy storage
- ⟨P27⟩ **Seiya Yokokura** (Nagoya University)  
Photo-induced Polarization Current in MISIM-type Photoelectric Conversion Cells
- ⟨P28⟩ **Zhongyue Zhang** (Nagoya University)  
Triptycene Derived Metal-Organic Frameworks: Unusual Topologies and Physical Properties
- ⟨P29⟩ **Toshiki Kitamori** (Tokyo Institute of Technology)  
Ambipolar Organic Field-Effect Transistors based on various Metal Complexes
- ⟨P30⟩ **So Yokomori** (The University of Tokyo)  
Syntheses, Structures and Physical Properties of Novel Metal-dithiolene Complexes with Hydrogen bonds
- ⟨P31⟩ **Ryohei Kameyama** (The University of Tokyo) Reductive Cross-Coupling of Alkynes and Aryl Iodides with Hydrogen by Cooperative Palladium/Copper Catalysis
- ⟨P32⟩ **Yoshiya Sunairi** (University of Tokyo)  
Anhydrous Proton Conductivity in Imidazolium Hydrogen Carboxylates: Effects of Hydrogen Bonds and Molecular Motions
- ⟨P33⟩ **Morihiro Ason** (Sanyo-Onoda City University)  
Crystal Structure and Photochromic Behavior of Salts Containing Cationic Spiropyran

- ⟨P34⟩ **Yusuke Funasako** (Sanyo-Onoda City University)  
Synthesis and Photochromic Properties of Ionic Liquids Containing Cationic Spiropyran
- ⟨P35⟩ **Tsuyoshi Murata** (Aichi Institute of Technology)  
Application of Conductive Thin-Films of Trioxotriangulene Neutral Radical as a 100% Active Material Cathode of Organic Rechargeable Battery
- ⟨P36⟩ **Kouhei Nishikawa** (Aichi Institute of Technology)  
Crystal Structures and Electrical Conductivities of Mixed Valence Salts of Trioxotriangulene Derivatives Having Chiral Counteranions
- ⟨P37⟩ **Takara Okamura** (Aichi Institute of Technology)  
Synthesis and Properties of Sulfur-atom Introduced Trioxotriangulene Analogues
- ⟨P38⟩ **Mikoto Karasawa** (Aichi Institute of Technology)  
Synthesis and Physical Properties of Mixed Valence Salts of Trioxotriangulene Derivatives with Crown Ether Metal Complex
- ⟨P39⟩ **Shun Dekura** (The University of Tokyo)  
Chemical Nature and Pd–H Bonding Character of the  $\alpha$ -Phase PdH(D)<sub>x</sub>