

PROGRAM

**THURSDAY OCTOBER 11 (MIRAI Hall, Frontier Center for Organic Materials
(Building 11) in Yamagata University)**

9:00-9:30

Open

9:30-9:40

Opening Remarks

Eri Ooishi

Student Chair, Yamagata University, Japan

Moderator: Taisei Nakagawa, Yamagata University, Japan

9:40-10:10

**IL-1 Display Technology for High Dynamic Range Images Using a Stochastic
Compensation Method**

Tomoharu Sato

National Institute of Technology, Ichinoseki College

10:10-10:20

CL-1 Vibration analysis of a flapping flag using the discrete vortex method

Keishiro Jitsukawa, Mikael A Langthjem

Yamagata University, Japan

10:20-10:40

**CL-2 High Malignant Extracellular Matrix Increases Chemoresistance Through
Promoted Epithelial-Mesenchymal Transition**

Takashi Hoshiba

Yamagata University, Japan

10:40-10:50 **Coffee Break (10 min)**

Moderator: Hiroaki Kiyokawa, Yamagata University, Japan

10:50-11:20

IL-2 TBA

Hameed Saji

The University of Aizu, Japan

11:20-11:30

CL-3 Mathematical Model Construction of Mass Conservation Law's Derivative to Reduce the Traffic Congestion in Indonesia

Prihantini, Glagah Eskacakra Setyowisnu

Yogyakarta State University, Indonesia

11:30-11:50

CL-4 On the fly computation of intermediate scattering function

Takahiro Murashima

Tohoku University, Japan

11:50-12:00 **Photo Opportunity**

12:00-13:30 **Lunch**

Moderator: Yuji Hirai, Yamagata University, Japan

13:30-14:00

IL-3 1D, 2D and 3D Electroactive Nanomaterials for Electrochemical Energy Storage via Electrospinning

Shengyuan Yang

Donghua University, China

14:00-14:10

CL-5 EVALUATION OF HIGH ENGINEERING PROPERTIES UHMWPE/GRAPHITE COMPOSITE BY OCTA-SCREW KNEADING PROCESS

Cheng-Ying Liu, Akira Ishigami, Takashi Kurose, Hiroshi Ito

Yamagata University, Japan

14:10-14:20

CL-6 Unexpected Dynamic Rheology from Liquid to Solid During Thermal Doping of Conductive Polyaniline

Kohei Takahashi, Teruya Goto, Hiroshi Awano and Tatsuhiro Takahashi
Yamagata University, Japan

14:20-14:30

CL-7 Structural analysis surface of new adhesive

Mizuho Ishii, Go Matsuba
Yamagata University, Japan

14:30-14:40 **Coffee Break (10 min)**

Moderator: Kosuke Terayama, Yamagata University, Japan

14:40-15:10

IL-4 Chemoenzymatic Synthesis of Functional Polypeptides

Kousuke Tsuchiya
RIKEN, Japan

15:10-15:20

CL-8 Synthesis of ion-conducting polymers by radical polymerization of deep eutectic monomers

Keiko AJINO, Kazuhiro NAKABAYASHI, and Hideharu MORI
Yamagata University, Japan

15:20-15:30

CL-9 Synthesis of Poly(3-alkylthienylene vinylene) Based on Transition-metal- and Halogen-free process and Its Application to Organic Thin-film Transistor

Keichiro Sato, Eisuke Goto, Yuto Ochiai, Cheng-Liang Liu, Tomoya Higashihara
Yamagata University, Japan

Moderator: TBA, Yamagata University, Japan

16:10-17:30 **Poster Session**

18:00-20:00 **Banquet**

FRIDAY OCTOBER 12 (MIRAI Hall, Frontier Center for Organic Materials (Building 11) in Yamagata University)

9:00-9:30

Open

9:35-9:40

Announcements

Miao Chen

Yamagata University, Japan

Moderator: Cheng-Ying Liu, Yamagata University, Japan

9:40-10:10

IL-5 Development of the Organic Transistor-Based Biosensors for Healthcare Applications

Kuniaki Nagamine, Shizuo Tokito

Yamagata University, Japan

10:10-10:20

CL-10 Synthesis of Ether-Tagged Biodegradable Polycarbonates via Post-Modification and Evaluation of Their Biocompatibility

Shunta Hakozaiki, Yuta Haga, Atsushi Narumi, Kazuki Fukushima

Yamagata University, Japan

10:20-10:30

CL-11 Synthesis and Properties of Segmented Polyurethanes Containing Antithrombogenic Aliphatic Polycarbonates with Different Chain Lengths

Mai Sano, Kota Honda, Yuto Inoue, Kazuki Fukushima, Hideharu Mori

Yamagata University, Japan

10:30-10:40

CL-12 Effects of Anisotropic Polymer Assemblies Based on Pegylated Amphiphilic Block Copolymers on Cellular Aggregation Behavior

Nozomi Fujimura, Masashi Oji, Kodai Matsuzaki, Haruka Tsuchiya, Kazuki Fukushima, Moriya Kikuchi, Seigo Kawaguchi
Yamagata University, Japan

10:40-11:00 **Coffee Break (20 min)**

Moderator: Yuki Tsuda, Yamagata University, Japan

11:00-11:30

IL-6 Nonlinear Impedance Spectroscopy of Organic MIS Capacitors and Planar Heterojunction Diodes

Matthew S. White, Andrew Larsen, Ekraj Dahal, Justin Paluba, Karen Cianciulli, Benjamin Isenhardt, Michael Arnold, Bin Du, and Yu Jiang
University of Vermont, USA

11:30-11:40

CL-13 Electrochemical Self-Assembly of CuSCN / Dye Hybrid Thin Films and Their Optical Properties

Kyota Uda, Tensho Nakamura, Yuki Tsuda, He Sun, Lina Sun, Matthew Schuette White, Madalina Furis, Tsukasa Yoshida
Yamagata University, Japan

11:40-11:50

CL-14 Development of deep eutectic mixture based on silsesquioxane nanoparticles

Yuma TANIZAKI, Kazuhiro NAKABYASHI, and Hideharu MORI
Yamagata University, Japan

11:50-12:00

CL-15 Fabrication and Characterization of Arrayed Ni Thin Film Bias Springs with SU-8 Micro-Pin structure for Tactile Display Device

Kazuki Tsuji, Konomu Abe, T. Shimizu, H. Hasegawa and Takashi Mineta
Yamagata University, Japan

12:00-13:30 **Lunch**

Moderator: Hinako Ebe, Yamagata University, Japan

13:30-14:00

IL-7 TBA

Yu-Chieh Cheng

National Taipei University of Technology, Taiwan

14:00-14:10

CL-16 High-efficiency organic light emitting diodes with a super-low-index organic layer

Tatsuki Sasaki, Yasutaka Suzuki, Takefumi Abe, Kaori Tsuruoka, Yasuhiro Kuwana,
Yutaka Noguchi, Daisuke Yokoyama
Yamagata University, Japan

14:10-14:20

CL-17 A Spirobiacridine Derivative as A Host Material for Efficient OLED

Hiroki Arai, Hisahiro Sasabe, Kohei Nakao, Tatsuya Ohsawa and Junji Kido
Yamagata University, Japan

14:20-14:50

IL-8 Material Design and Screening of Polymer Solar Cell Based on Machine Learning

Akinori Saeki

Osaka University, Japan

14:50-15:10 **Coffee Break (20 min)**

Moderator: Yuki Maruyama, Yamagata University, Japan

15:10-15:40

IL-9 Low-dimensional perovskites for photovoltaics and light-emitting diodes

Li Na Quan, Mingjian Yuan, Ricardo Comin, Oleksandr Voznyy, Edward H. Sargent
University of California, USA

15:40-15:50

CL-18 Controlled Synthesis of Semiconducting Graft Polymers Toward Organic Solar Cell Application

Naoto Takagi, Tomoya Higashihara
Yamagata University, Japan

15:50-16:00

CL-19 Synthesis of amino acid-based organic semiconductor nanoparticles with optical and sensing property

Keita KATAOKA, Chen-Tsyr LO, Kazuhiro NAKABAYASHI, and Hideharu MORI
Yamagata University, Japan

16:00-16:20

CL-20

Tomoya Higashihara
Yamagata University, Japan

16:20-16:30

Review Comments

Takuya Komoda
Yamagata University, Japan

16:30-16:40

Closing Remarks

Bungo Ochiai
Chair, Yamagata University, Japan

Poster Session

- PO-1** **Synthesis and Characterization of Polybenzoxazoles with Siloxane Spacers Based on Environment-friendly Polymerization and Low Temperature Cyclization**
Keita Yoshida, Mituru Ueda, Tomoya Higashihara
Yamagata University, Japan
- PO-2** **A New In-Vitro Micro Transplantation System between 3-D Neuron Cells Colonies Differentiated from iPS Cells**
Tetsuya Kaneko, Tadashi Kosawada, Zhonggang Feng
Yamagata University, Japan
- PO-3** **Surface electronic states of semiconducting magnesium silicide crystals studied by ultraviolet photoelectron spectroscopy combined with synchrotron radiation and laser**
Taku Tanimoto, Mamoru Kitaura, Junpei Azuma, Isamu Yamamoto, Masaki Imamura, Kazutoshi Takahashi, Haruhiko Uono, Manabu Ishizaki, Akimasa Ohnishi, Kazuhiko Hara
Yamagata University, Japan
- PO-4** **Possible Application of Organic Photovoltaic Sheet for New Ventilation System in Architecture**
Akari Miyazawa, Naoki Yoshimoto, Kishio Hidaka, Kazuya Mitsuji
Yamagata University, Japan
- PO-5** **Resonator-Transmissionline Separation Design for Improvement of Microwave Characteristics of MKIDs**
Daisuke Kurashina, Kensuke Nakajima, Kaito Suzuki, Yoshiki Kato, Atsushi Saito
Yamagata University, Japan
- PO-6** **Fabrication and Characteristics of Shape Memory Alloy Arrayed Thick Film Actuators with Individual-Actuation-Type Tactile Display Device**
Yusuke Kimura, Kazuki Tsuji, Konomu Abe, Kenji Iwasaki and Takashi Mineta
Yamagata University, Japan
- PO-7** **Self-Organized Precipitation Patterns Controlled by Concentration Gradient of Reaction Medium**
Masaki Itatani, Qing Fang, Kei Unoura, Hideki Nabika
Yamagata University, Japan
- PO-8** **Batch-Fabrication of Silicon AFM Probe with Liquid Delivering Micro-Structure near The Cantilever**
Y. Masuda, J. Hong, T. Mineta
Yamagata University, Japan
- PO-9** **3D printing: screw-based extrusion**
Samiul Basher, Kumkum Ahamed, Azusa Saito, Ajit Khosla, Masaru Kawakami, Hidemitsu Furukawa
Yamagata University, Japan

- PO-10 Electrodeposition of Zn-Terephthalate MOF Thin Films**
Tenshou Nakamura, Shotaro Ueda, Kyota Uda, Yuki Tsuda, Yuji Hirai, He Sun, Tsukasa Yoshida
Yamagata University, Japan
- PO-11 Tactile texture and friction properties of cosmetic sponges under accelerated Movement**
Natsumi Asanuma, Yuuki Aita and Yoshimune Nonomura
Yamagata University, Japan
- PO-12 Printable paper electrode for electrochemical applications**
Ryota Sato, He Sun, Ajit Khosla, Praveen Kumar Sekhar, Tsukasa Yoshida
Yamagata University, Japan
- PO-13 Systematic Analysis of Selective Bactericidal Activity of Fatty Acids**
Takamasa Watanabe, Yoshiaki Yamamoto, Maki Miura, Hiroyuki Konno, Shigekazu Yano, Yoshimune Nonomura
Yamagata University, Japan
- PO-14 Differentiation of subtype cardiomyocytes derived from human iPS cells on extracellular matrix hydrogels**
Fumika Hamada, Kyohei Fujita, Hiroaki Itoyama, Shunsuke Higuchi, Tadashi Kosawada, Daisuke Sato, Takao Nakamura, Yasuyuki Shiraishi, Mitsuo Umezu, Zhonggang Feng
Yamagata University, Japan
- PO-15 Design and Evaluation of HTS Pick-Up Coil for 40 MHz NMR**
Haruki Hoshi, Kotaro Irie, Shigetoshi Ohshima, Atsushi Saito
Yamagata University, Japan
- PO-16 Development of Transmitter Eight-pole Cascaded Quadruplet Filter Using Superconducting Bulk Resonator**
Shun Kodama, Takafumi Saito, Gen Saito, Atsushi Saito
Yamagata University, Japan
- PO-17 Study on fatigue life of pneumatic rubber artificial muscle**
Yohei SATO, Hiroki TOMORI
Yamagata University, Japan
- PO-18 Development of Stationary Phases for Paper Chromatography Using Modified Filter Paper**
Seiya Koseki, Yoshimasa Matsumura, Bungo Ochiai
Yamagata University, Japan
- PO-19 Acid treatment and As stabilization with Fe (II) for Reclamation of a waste As-bearing Gypsum**
Dazhong Yang, Atsushi Sasaki, Masatoshi Endo
Yamagata University, Japan

- PO-20 Properties of Gels from Mixed Agar and Konjac powder**
Julkarnyne M. Habibur Rahman, Hideaki Tamate, Ajit Koshla, Masaru Kawakami,
Hidemitsu Furukawa
Yamagata University, Japan
- PO-21 TACTILE PAVING FROM VINYL WASTE AS FILLING PAVING FOR
BLIND PEOPLE SIDEWALK AND ZEBRA CROSS**
Muhammad Yusvado Aldrian Habib, Febriawan Haryojati Winasis
Yogyakarta University, Indonesia
- PO-22 The Healing Potential of Male and Female Papaya for Malaria Mice Model: An
Immunoprofiling Approach using Smart System Flowcytometry**
Rizka Fajriana Putri Ramadhani, Haidar Azzamuddin, S. Fatiyatur Rahmah,
Muhaimin Rifa'I, Loeki Enggar Fitri
State Islamic Senior High School, Indonesia
- PO-23 Preparation of Cu₂SnS₃ Thin Film by Photo Chemical Deposition and Influence
of Dextrin Addition**
Amane Abe, Takuya Tomono, Kazuhiro Sugai, Takeshi Houga, Katsuhiko Moriya,
and Kunihiro Tanaka
National Institute of Technology, Tsuruoka College, Japan
- PO-24 Characterization and Annealing Temperature Dependence of CH₃NH₃PbI₃ Thin
Film**
Hikaru Togashi, Katsuhiko Moriya, and Kunihiro Tanaka
National Institute of Technology, Tsuruoka College, Japan
- PO-25 Preparation and concentration dependence of Cu₂SnS₃thin films by dip coating
method**
Takuya Tomono, Amane Abe, Kazuhiro Sugai, Kunihiro Tanaka and Katsuhiko
Moriya
National Institute of Technology, Tsuruoka College, Japan
- PO-26 Development of Electrolyte Membrane for PEFC using Ionic-Liquids**
Ryoya Sano, Takashi Morinaga, Takaya Sato
National Institute of Technology, Tsuruoka College, Japan
- PO-27 Synthesis of Novel Ionic Liquid and Its Physico Chemical Properties**
Mari Aoyagi, Ryo Shomura, Gen Masuda, Takaya Sato
National Institute of Technology, Tsuruoka College, Japan
- PO-28 Fabrication and Characterization of Ru-O Based Conductive Oxide Thin Film**
Kenshin Narisawa, Takanori Takahashi, Masahito Yamaguchi, Kiyoshi Uchiyama
National Institute of Technology, Tsuruoka College, Japan
- PO-29 Study on Viscosity of Liquid Foods by Temperature Changes**
Ayaka Endo, Fumio Takahashi, Naoki Fukumura, Michiaki Shishido
National Institute of Technology, Tsuruoka College, Japan

- PO-30** **Analysis of Biological Signals and its Characteristics in the Reading Process**
Ryota Yako, Yasuko Tsuchida, Shigehiro Toyama, Keisuke Takebe, Yuki Murakami
National Institute of Technology, Nagaoka College, Japan
- PO-31** **Analysis of Eye Tracking and its Characteristics in the Reading Process**
Akira Shimoda, Yasuko Tsuchida, Shigehiro Toyama, Keisuke Takebe, Yuki Murakami
National Institute of Technology, Nagaoka College, Japan
- PO-32** **Reproducibility of Acceleration Sensation by Galvanic Vestibular Stimulation for Smart Assist Maneuvering System**
Keisuke Otani, Kazu Irisawa, Shigehiro Toyama, Kenji Kamimura and Fujio Ikeda
National Institute of Technology, Nagaoka College, Japan
- PO-33** **Operability evaluation for Smart Maneuvering System with simplified ship simulator**
Kazuya Kawamata, Shigehiro Toyama, Kenji Kamimura and Fujio Ikeda
National Institute of Technology, Nagaoka College, Japan
- PO-34** **Human Dynamic Model of Sagittal Plane Direction for Horizontal Swinging**
Yusuke Toyama, Shigehiro Toyama and Motomichi Sonobe
National Institute of Technology, Nagaoka College, Japan
- PO-35** **Haptics Interface for Smart Assist Maneuvering System**
Yuki Nakamura, Keishuke Ohtani, Shigehiro Toyama, Kenji Kamimura and Fujio Ikeda
National Institute of Technology, Nagaoka College, Japan
- PO-36** **Vection Stimulation for Smart Assist Maneuvering System**
Tetsuya TAKAMATSU, Kenji KAMIMURA, Shigehiro TOYAMA
National Institute of Technology, Nagaoka College, Japan
- PO-37** **Analysis of Biological Signals in English Reading**
Yasuko Tsuchida, Ryota Yako, Akira Shimoda, Shigehiro Toyama, Keisuke Takebe, and Yuki Murakami
National Institute of Technology, Nagaoka College, Japan
- PO-38** **3D printing for museums using soft materials**
Azusa Saito, Koji Ishiguro, Masaru Kawakami, Hidemitsu Furukawa
Yamagata University, Japan