

# PROGRAM

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**THURSDAY OCTOBER 8 (The conference room, 100th Anniversary Hall in Yamagata University)**

13:30-14:00  
Open

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14:00-14:10  
Opening Remarks

**Tomoya Highashihara**  
*Chair, Yamagata University, Japan*

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Moderator: Noriyasu Yamada, Yamagata University, Japan

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14:10-14:40

**IL-1      Onsager Principle and its Applications to Flow-diffusion Phenomena in Soft Matter**  
**Masao Doi**  
*Beihang University, China*

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Moderator: Go Matsuba, Yamagata University, Japan

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14:40-14:50

**CL-1      Polymer Nanofibers by Anodic Aluminum Oxide Template, using Supercritical Carbon Dioxide Assistant**  
**Paritat MUANCHAN**  
*Yamagata University, Japan*

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14:50-15:00

**CL-2      Processing and Thermal Response Properties of Shape Memory Polymer**  
**Eiichi Hosaka**  
*Yamagata University, Japan*

15:00-15:10

**CL-3 Manufacturing Methods and Characterization of Polymer Multilayer Structures by UV-imprinting**

**Tsuyoshi Sasaki**

*Yamagata University, Japan*

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15:10-15:20

**CL-4 Gelation Process of Various Molecular Weight Atactic Poly(acrylonitrile)**

**Soken Konno**

*Yamagata University, Japan*

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15:20-15:40 **Coffee Break (20 min)**

Moderator: Ajit Khosla, Yamagata University, Japan

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15:40-16:30

**PL-1 Wearable Wireless Textile Based Nanosensor System for Early Detection of Concussion and Cardiac Arrest**

**Vijay Varadan**

*The Pennsylvania State University, United States*

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16:30-16:50 **Coffee Break (20 min)**

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16:50-17:20

**IL-2 New Stochastic Sensors Based on Nanostructured Materials for Fast Screening of Biological Fluids for Cancer Biomarkers**

**Raluca Van Staden**

*National Institute of Research for Electrochemistry and Condensed Matter, Romania*

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Moderator: Satoshi Mizoi, Yamagata University, Japan

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17:20-17:30

**CL-5 Synthesis of 9,9'-bifluorenylidene Compounds and their Singlet Fission Properties in Organic Photovoltaic Devices**

**Hiroko Mianaki**

*Yamagata University, Japan*

17:30-17:40

**CL-6    Synthesis of Terpyridine-based Electron-transporters and their  
Application to Green Phosphorescent OLEDs**

**Ryo Yoshioka**

*Yamagata University, Japan*

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17:40-17:45

Closing the 1<sup>st</sup> Day/Announcements

**Tomoya Highashihara**

*Chair, Yamagata University, Japan*

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18:00-20:00    **Banquet**

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**FRIDAY OCTOBER 9 (The conference room, 100th Anniversary Hall, Yamagata University)**

9:00-9:30

Open

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9:30-9:40

Announcements

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Moderator: Satoshi Miyane, Yamagata University, Japan

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9:40-10:10

**IL-3     Precise Synthesis of Poly(methyl methacrylate): Controls of Molecular Weight, Stereoregularity, and End-Functionality**

**Yasuhiro Kohsaka**

*Shinshu University, Japan*

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10:10-10:20

**CL-7     Organic Semiconductor Nanoparticles with Donor-acceptor Cores Synthesized by Self-assembly of Amphiphilic Block Copolymers and Site-selective Suzuki Coupling Reaction**

**Yu Watanabe**

*Yamagata University, Japan*

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10:20-10:30

**CL-8     Facile and Environmentally-Friendly Synthesis of Naphthalene Bisimide-Dithiophene Alternating Copolymer through Direct Arylation**

**Haruka Fukuzawa**

*Yamagata University, Japan*

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

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Moderator: Hiroyuki Furusawa, Yamagata University, Japan

10:50-11:20

**IL-4 New Generation of Neuroprosthetics Probes Using Glassy Carbon-Based Microelectrodes for Bi-directional Brain Computer Interfaces**

**Sam Kassegne**

*San Diego State University, United State*

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11:20-11:30

**CL-9 Improvement of Vertical Carrier Mobility by Controlling Film Structure of a Phthalocyanine Derivative and its Application to Vertical-type Transistors**

**Keitaro Yamada**

*Yamagata University, Japan*

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11:30-11:40

**CL-10 Optical Single Sideband Modulation with Pre-processing of Phase Rotation for IoT Networks**

**Takahiro Suzuki**

*Yamagata University, Japan*

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11:40-12:00 **Photo Opportunity**

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12:00-13:00 **Lunch (60 min)**

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Moderator: Takahiro Kamata, Yamagata University, Japan

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13:00-13:30

**IL-5 High-efficiency Solution-Processed Organic Light-Emitting Devices with Multilayer Structures**

**Naoya Aizawa**

*Kyushu University, Japan*

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13:30-13:40

**CL-11 Effect of Substituents of Carbazole-Based Hosts on the Performance in Blue Phosphorescent OLEDs**

**Yuji Nagai**

*Yamagata University, Japan*

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13:40-13:50

**CL-12 Study on the Molecular Orientation of Novel Iridium Complexes with Phenylpyridine Derivative Ligands in OLEDs**

**Kento Takahashi**

*Yamagata University, Japan*

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13:50-14:10 **Coffee Break (20 min)**

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Moderator: He Sun, Yamagata University, Japan

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14:10-14:40

**IL-6 Preparation of Novel Functional 2D Materials and their Application in Selective Separation of Uranium**

**Lijian MA**

*Sichuan University, China*

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14:40-14:50

**CL-13 Investigation of Polycyanurate/Benzoxazine Curing System**

**MAO-CHUN FU**

*Yamagata University, Japan*

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14:50-15:00

**CL-14 Direct in vivo Functionalizing Silkworm Fibroin via Molecular Recognition.**

**Kun Li**

*Yamagata University, Japan*

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15:00-15:20 **Coffee Break (20 min)**

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Moderator: Jin Gong, Yamagata University, Japan

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15:20-15:50

**IL-7 Smart Suppression of Friction-Induced Vibration: Significance of Change in Direction of Frictional Force**

**Ken Nakano**

*Yokohama National University, Japan*

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15:50-16:00

**CL-15 A Study of the Structure and Mechanical Properties of  $\gamma$ -polyglutamic Acid by AFM**

**Parbhej Ahamed**

*Yamagata University, Japan*

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16:00-16:10

**CL-16 Silicon Micro-bump Arrays for Presentation of Rough and Frictional Tactile Sensations**

**Jiale Xu**

*Yamagata University, Japan*

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16:10-16:30 **Coffee Break (20 min)**

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Moderator: Kohei Osawa, Yamagata University, Japan

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16:30-17:20

**PL-2 Science Outspread from the Tribology on a Banana Peel**

**Kiyoshi Mabuchi**

*Kitasato University, Japan*

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17:20-17:30 **Review Comments**

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17:30-17:35

Closing Remarks

**Tomoya Highashihara**

*Chair, Yamagata University, Japan*

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