Program Summary

☆*July 23rd, Monday*☆

18:00 – **Registration & Welcome reception at Restaurant Elm (Trillium), Hokkaido University**

☆*July 24th, Tuesday*☆

at Akira Suzuki Hall (Second floor), Frontier Research in Applied Sciences Building, Faculty of Engineering, Hokkaido University

9:00 – 9:10 **Opening Remarks** Toshifumi Satoh (*Hokkaido University*)
Eunkyoung Kim (*Yonsei University*)

Chairman: Prof. Toshifumi Satoh

9:10 – 9:40 **Keynote Lecture**

KL01 **Functional Metal Nanostructures based on Block Copolymer Self-Assembly**
Jin Kon Kim (*Pohang University of Science and Technology*)

Chairman: Prof. Taiho Park

9:40 – 10:00 **Invited Lecture**

IL01 **Monomer Sequence Regulation via Controlled Radical Additions and Polymerizations**
Masami Kamigaito (*Nagoya University*)

10:00 – 10:20 **Invited Lecture**

IL02 **Synthesis and LCST-type Phase Transition Behavior of Polyimides and Poly(arylene ether sulfone)s in Organic Media**
Sang Youl Kim (*Korea Advanced Institute of Science and Technology*)

10:20 – 10:40 **Coffee break**

Chairman: Prof. Masami Kamigaito

10:40 – 11:00 **Invited Lecture**

IL03 **Design and Synthesis of Semiconductive and Ion-conductive Core-Shell Nanoparticles with Cross-linked Cores**
Hideharu Mori (*Yamagata University*)

11:00 – 11:20 **Invited Lecture**

IL04 **Block Copolymer Assemblies in Nano-Confinement**
Kookheon Char (*Seoul National University*)

Chairman: Prof. Sang Youl Kim

11:20– 11:40 **Invited Lecture**

IL05 **Novel Synthetic Pathway for Multicyclic Polymers**

Toshifumi Satoh (*Hokkaido University*)

11:40 – 12:00 **Invited Lecture**

IL06 **Control of Polymer Architecture via RAFT Alternating Copolymerization**

Myungeun Seo (*Korea Advanced Institute of Science and Technology*)

12:00 – 13:40 **Lunch Time**

Chairman: Prof. Kookheon Char

13:40 – 14:10 **Keynote Lecture**

KL02 **Novel Hydrogels with Reversible Sacrificial Bonds –From Toughness to Wet Adhesion to Composites–**

Jian Ping Gong (*Hokkaido University*)

Chairman: Prof. Teruaki Hayakawa

14:10 – 14:30 **Invited Lecture**

IL07 **Side Chain Engineering in Conjugated Polymers for a Long Bistable Electrochromism**

Eunkyoung Kim (*Yonsei University*)

14:30 – 14:50 **Invited Lecture**

IL08 **Tribological Phenomena of Molecular Assembled Films**

Kenji Hisada (*University of Fukui*)

14:50 – 15:10 **Coffee break**

Chairman: Prof. Myungeun Seo

15:10 – 15:30 **Invited Lecture**

IL09 **Organic Photovoltaic Polymers for Next Generation Green Energy Sources**

Han Young Woo (*Korea University*)

15:30 – 15:50 **Invited Lecture**

IL10 **Morphology Control Based on Post-Functionalization of Block Copolymers**

Teruaki Hayakawa (*Tokyo Institute of Technology*)

15:50 – 16:10 **Invited Lecture**

IL11 **Rational Design of Conducting Polymers for Energy Devices**

Taiho Park (*Pohang University of Science and Technology*)

16:10 – 18:00 **Student Poster Session**

at Second floor, Frontier Research in Applied Sciences Building

18:30 – **Dinner at Sapporo Beer Garden**

☆July 25th, Wednesday☆

at Akira Suzuki Hall (Second floor), Frontier Research in Applied Sciences Building, Faculty of Engineering, Hokkaido University

Chairman: Prof. Eunkyoung Kim

9:00 – 9:30 **Keynote Lecture**

KL03 **Synchrotron Radiation X-ray Scattering of Polymeric Materials under Various Deformation States**

Atsushi Takahara (*Kyusyu University*)

Chairman: Prof. Ken Nakajima

9:30 – 9:50 **Invited Lecture**

IL12 **Organic Sol-Gel Synthesis of Nanostructured Materials for Catalysis**

Ji-Woong Park (*Gwangju Institute of Science and Technology*)

9:50 – 10:10 **Invited Lecture**

IL13 **Lattice-Controlled A-A / B-B type Stepwise Polymerization**

Kazuki Sada (*Hokkaido University*)

10:10 – 10:30 **Coffee break**

Chairman: Prof. Woo-Dong Jang

10:30 – 10:50 **Invited Lecture**

IL14 **Pd-initiated Polymerization of Diazoacetate to Afford Poly(alkoxycarbonylmethylene)**

Eiji Ihara (*Ehime University*)

10:50 – 11:10 **Invited Lecture**

IL15 **Effects of Compositional Asymmetry and Chain Length on Phase Transition Behavior of Symmetric Diblock Copolymers**

Du Yeol Ryu (*Yonsei University*)

Chairman: Prof. Hideharu Mori

11:10 – 11:30 **Invited Lecture**

IL16 **Anionic Polymerization of Benzofulvene Derivatives**

Takashi Ishizone (*Tokyo Institute of Technology*)

11:30 – 11:50 **Invited Lecture**

IL17 **Intrinsically Stretchable and Healable Semiconducting Polymer for Skin-Inspired Wearable Transistors**

Yu-Cheng Chiu (*Hokkaido University, National Taiwan University of Science and Technology*)

11:50 – 13:30 **Lunch Time**

Chairman: Prof. Takashi Ishizone

13:30 – 14:00 **Keynote Lecture**

KL04 **Bottlebrush Block Copolymers synthesized by Combination of Living Anionic Polymerization and Ring-Opening Metathesis Polymerization for Photonic Crystal**

Jae Suk Lee *(Gwangju Institute of Science and Technology)*

Chairman: Prof. Du Yeol Ryu

14:00 – 14:20 **Invited Lecture**

IL18 **AFM Nanomechanics on Polymeric Materials**

Ken Nakajima (*Tokyo Institute of Technology*)

14:20 – 14:40 **Invited Lecture**

IL19 **Design Rules of Efficient Ion Conducting Polymers: From Block Copolymers to Single-Ion Polymers**

Moon Jeong Park (*Pohang University of Science and Technology*)

14:40 – 15:00 **Coffee break**

Chairman: Prof. Eiji Ihara

15:00 – 15:20 **Invited Lecture**

IL20 **Design of Multi-Modal Stimuli-Responsive Polymers**

Woo-Dong Jang (*Yonsei University*)

15:20 – 15:40 **Invited Lecture**

IL21 **Instantly Formative Hydrogels for Artificial Vitreous Body**

Takamasa Sakai (*The University of Tokyo*)

15:40 – 16:00 **Invited Lecture**

IL22 **Hierarchically Architectured Cellular Network of Graphene Bubbles for Ultralight, Strong, and Superelastic Materials**

Pil J. Yoo (*Sungkyunkwan University*)

16:00 – 16:20 **Coffee break**

Chairman: Prof. Ji-Woong Park

16:20 – 16:40 **Invited Lecture**

IL23 **Multilayer Nano-Films for Stem Cell Technology**

Jinkee Hong (*Yonsei University*)

16:40 – 17:00 **Invited Lecture**

IL33 **Construction and Thermophysical Characterization of Hierarchical Assemblies Composed of Filamentous Viruses**

Toshiki Sawada (*Tokyo Institute of Technology*)

Chairman: Prof. Takamasa Sakai

17:00 – 17:20 **Invited Lecture**

IL25 **Tuning the Release Kinetics of pH-Responsive All Polyether Micelles with Novel Epoxide Monomers**

Byeong-Su Kim (*Ulsan National Institute of Science and Technology*)

17:20 – 17:40 **invited Lecture**

IL26 **Loss Tangent Map Measured by Nanorheological Atomic Force Microscope**

Eijun Ueda (*Zeon Corporation*)

18:30 – **Banquet at Hotel Mystays Sapporo Aspen**

☆July 26th, Thursday☆

at Akira Suzuki Hall (Second floor), Frontier Research in Applied Sciences Building, Faculty of Engineering, Hokkaido University

Chairman: Prof. Takuya Yamamoto

9:00 – 9:20 **Invited Lecture**

IL27 **Swelling Kinetics and Proton Conductivity in Thin Nafion Films**

Keiji Tanaka (*Kyushu University*)

9:20 – 9:40 **Invited Lecture**

IL28 **Mixed Conductor-Based Bioelectronics: From PEDOT:PSS Thin Film Electrochemical Transistors to Single-Strand Microfiber Sensors**

Myung-Han Yoon (*Gwangju Institute of Science and Technology*)

Chairman: Prof. Yu-Cheng Chiu

9:40 – 10:00 **Invited Lecture**

IL29 **A Rational Entry to Macrocyclic Compounds and Polymers via Selective Cyclization Derived From Dynamic Covalent Bond**

Daisuke Aoki (*Tokyo Institute of Technology*)

10:00 – 10:20 **Invited Lecture**

IL30 **Synthesis and Morphology of Sugar-Containing Low Molecular Weight Block Copolymers**

Takuya Isono (*Hokkaido University*)

10:20 – 10:40 **Coffee break**

Chairman: Prof. Myung-Han Yoon

10:40 – 11:00 **Invited Lecture**

IL31 **Morphology Control of High Performance Polymers Prepared from Cinnamic Acid Derivatives**

Hironori Atarashi (*Okayama University*)

11:00 – 11:20 **Invited Lecture**

IL32 **Biomimetic Functional Hydrogels with Anisotropic Structures**

Youn Soo Kim (*Pohang University of Science and Technology*)

11:20 – 11:40 **Invited Lecture**

IL24 **Functional Materials Formed from Cyclic Polymers**

Takuya Yamamoto (*Hokkaido University*)

Chairman: Prof. Toshifumi Satoh and Eunkyoung Kim

11:40 – **Poster Award Ceremony**

12:00 – 13:00 **Lunch Time**

13:45 – **Move to Dai-ichi Takimotokan, Noboribetsu from North Exit of Sapporo Station**

20:00 –23:00 **Integration meeting at Dai-ichi Takimotokan, Noboribetsu**

☆*July 27th, Friday*☆

at Dai-ichi Takimotokan, Noboribetsu

Chairman: Toshifumi Satoh and Eunkyoung Kim

8:00 – 9:30 **Meeting for future collaboration at Dai-ichi Takimotokan, Noboribetsu**

9:30 – **Closing remarks and Move to New Chitose Airport and Sapporo Station**