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)
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<td>11:20–11:40</td>
<td><strong>Invited Lecture</strong></td>
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| 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                                   |
| 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)*         |
| 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                                 |
| 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*

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<th>Time</th>
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| 9:00 – 9:30 | **Keynote Lecture**                        | **KL03** Synchrotron Radiation X-ray Scattering of Polymeric Materials under Various Deformation States  
Atsushi Takahara *(Kyusyu University)* |
| 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**                          |                                                                                                  |
| 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)* |
| 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