Program Summary

☆September 2nd, Wednesday☆

18:00 – Registration & Welcome reception at Sapporo Aspen Hotel

$\Delta September 3^{rd}$, Thursday Δ

at MC030, Materials Engineering and Chemistry Building, Faculty of Engineering, Hokkaido University

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

Wen-Chang Chen (National Taiwan University)

9:10 – 9:50

Plenary Lecture

PL01

Recent Progress in Low Band Gap Polymer Solar Cells

Show-An Chen (National Tsing Hua University)

9:50 – 10:20

Keynote Lecture

KL01

Role of Mechanical Linkage in Polymer Systems: Tough Polymer and Topology-Transformable Polymer

Toshikazu Takata (Tokyo Institute of Technology)

10:20 – 10:40 Invited Lecture

IL01 Band-gap and Solubility Tunable Two-dimensional Conjugated Polymers for Photovoltaic

Applications

Kung Hua Wei (National Chiao-Tung University)

Jing Cherng Tsai (National Chung Cheng University)

10:40 – 11:00 Coffee break

	Chairman: Prof. Ru-Jong Jeng
11:00 - 11:20	Invited Lecture
IL02	Synthesis of Polycyanurates and Their Application to Optical Materials and Dismantlable
	Adhesives
	Mitsuru Ueda (Tokyo Institute of Technology and Kanagawa University)
11:20 - 11:40	Invited Lecture
IL03	Stereoregularity Effects in Self-assembly

	Chairman: Prof. Toshikazu Takada
11:40- 12:00	Invited Lecture
IL04	Biosynthesis and Properties of Eco-friendly Polymers
	Seiichi Taguchi (Hokkaido University)
12:00 - 12:20	Invited Lecture
IL05	Functional High-Performance Polymers for Advanced Applications
	Guey-Sheng Liou (National Taiwan University)
12:20 - 13:50	Lunch
	Chairman: Prof. Jing-Cherng Tsai
13:50 – 14:20	Keynote Lecture
KL02	Topological Polymer Chemistry Designing Macromolecular Graph Constructions
	Yasuyuki Tezuka (Tokyo Institute of Technology)
14:20 - 14:50	Keynote Lecture
KL03	Temperature-Dependent Composition Profile of Diblock Copolymer Exhibiting Lower
	Critical Ordering Transition: A Chain Flipping Model
	Hsin-Lung Chen (National Tsing Hua University)
	Chairman: Prof. Yasuyuki Tezuka
14:50 – 15:10	Invited Lecture
14:50 – 15:10 IL06	·
	Invited Lecture
	Invited Lecture Synthesis of Amphiphilic Cyclic, Figure-Eight-Shaped, and Tadpole-Shaped Block
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16:30 – 18:00 Poster Session

at Seminar Room 1 (1st Floor), Frontier Research in Applied Sciences Building

18:30 – Dinner at Sapporo Beer Garden

★September 4th, Friday ☆

at MC030, Materials Engineering and Chemistry Building, Faculty of Engineering, Hokkaido University

	Chairman: Prof. Fumio Sanda
9:00 - 9:30	Keynote Lecture
KL04	Tough Soft Materials with Sacrificial Bonds
	Jian Ping Gong (Hokkaido University)
9:30 - 10:00	Keynote Lecture
KL05	Development of Conjugated Polymers and Fullerene Derivatives for Organic Solar Cell
	Applications

	Chairman: Prof. Chi-How Peng
10:00-10:20	Invited Lecture
IL10	Crystal Cross-Linking as a New Type of Solid-State Polymerization
	Kazuki Sada (Hokkaido University)
10:20 – 10:40	Coffee break
10:40 - 11:00	Invited Lecture
IL11	Polysarcosine: from Syntheses to Properties
	Jun Ling (Zhejiang University)

	Chairman: Prof. Ken Kojio
11:00 – 11:20	Invited Lecture
IL12	Synthesis of Optically Active Conjugated Polymers and Control of the Higher Order
	Structures
	Fumio Sanda (Kansai University)
11:20 - 11:40	Invited Lecture
IL13	Spray-Coating Techniques for Organic Electronics
	Cheng-Liang Liu (National Central University)
11:40 - 13:20	Lunch

Chairman: Prof. Teruaki Hayakawa	
13:20 – 13:40	Invited Lecture
IL14	Living Anionic Polymerization of 1,4-Diisopropenylbenzene and Its Derivatives
	Akira Hirao (Tokyo Institute of Technology, National Taiwan University, and Soochow
	University)
13:40 – 14:00	Invited Lecture
IL15	Polymer Network Based Tunable Plasmonic Device Using Nanoparticles
	Kuniharu Ijiro (Hokkaido University)
	Chairman: Prof. Jui-Hsiang Liu
14:00 - 14:20	Invited Lecture
IL16	Honeycomb-Like Polymeric Films from Dendritic Polymers
	Ru-Jong Jeng (National Taiwan University)
14:20 – 14:40	Invited Lecture
IL17	Rheo-Optical Analysis of Polymer Materials Using a Synchrotron Radiation X-ray
	Scattering Technique
	Ken Kojio (Kyushu University)
14:40 – 15:10	Coffee break
14.40 – 13.10	Confee break
	Chairman: Prof. Keiji Tanaka
15:10 – 15:30	Invited Lecture
IL18	Synthesis, Morphology, and Applications of Conjugated Moiety Containing Block
	Copolymers
	Wen-Chang Chen (National Taiwan University)
15:30 – 15:50	Invited Lecture
IL19	Perpendicularly Oriented Lamellar Structure Formation Induced by Surface Segregation
	of Block Copolymer
	Teruaki Hayakawa (Tokyo Institute of Technology)
	Chairman: Prof. Youliang Zhao
15:50 – 16:10	Invited Lecture
IL20	Phase Separation Structures of Polymer/Fullerene Blends in Bulk Heterojunction Solar
	Cells
	Shih-Huang Tung (National Taiwan University)
16:10 - 16:30	Invited Lecture
IL21	Water Sorption and Proton Conductivity in Thin Nafion Films
	Keiji Tanaka (Kyushu University)

16:30 – 17:00 Coffee break

18:40 -

	Chairman Bark Was Chair Chair
	Chairman: Prof. Wen-Chang Chen
17:00 - 17:30	Keynote Lecture
KL06	Origins of Periodical Assembly in Polymer Spherulites: Polycrystalline Branching,
	Bending, and Scrolling
	Eamor Woo (National Cheng Kung University)
17:30 – 18:10	Plenary Lecture
PL02	Recent Development for Group Transfer Polymerization of Acrylate Monomers Using
	Recent Development for Group Transfer Forjune Education of Refylate Monomers Comig
	Organocatalyst

☆September 5th, Saturday☆

Banquet at Sapporo Aspen Hotel

at MC030, Materials Engineering and Chemistry Building, Faculty of Engineering, Hokkaido University

	Chairman: Prof. Yukari Oda
9:00 - 9:20	Young Scientist Invited Lecture
YIL01	A Facile PDMS-Assisted Crystallization for the Crystal-Engineering of C_{60} Single-Crystal
	Organic Field-Effect Transistors
	Chien Lung Wang (National Chiao-Tung University)
9:20 – 9:40	Young Scientist Invited Lecture
YIL02	Synthesis and Properties of Novel Mechanochromic Polymers with
	Tetraarylsuccinonitrile Unit
	Raita Goseki (Tokyo Institute of Technology)

	Chairman: Prof. Chien Lung Wang
9:40 - 10:00	Young Scientist Invited Lecture
YIL03	Morphology, Photophysical Properties, and Sensor Application of Electrospun Nanofibers
	from Photoluminescent Copolymers
	Chi-Ching Kuo (National Taipei University of Technology)
10:00 - 10:20	Young Scientist Invited Lecture
YIL04	Sub-20 nm Scale Nanoorganization in Architecturally Complex Sugar-Based Block
	Copolymers
	Takuya Isono (Hokkaido University)

10:20 – 10:40 Coffee break

	Chairman: Prof. Raita Goseki
10:40 - 11:00	Young Scientist Invited Lecture
YIL05	From CMRP to ATRP, a direct chain extension from poly(vinyl acetate) to poly(methyl
	methacrylate) and polystyrene
	Chi-How Peng (National Tsing Hua University)
11:00 - 11:20	Young Scientist Invited Lecture
YIL06	A Novel Design of Polymer Interfaces Based on Poly(vinyl ether)s
	Yukari Oda (Kyushu University)
	Chairman: Prof. Chi-Ching Kuo
11:20 – 11:40	Young Scientist Invited Lecture
YIL07	Fluorescent and Stimuli-Responsive Mixed Micelles for Drug Delivery System
	Wen-Chung Wu (National Cheng Kung University)
11:40 – 12:00	Young Scientist Invited Lecture
YIL08	t-Bu-P ₄ -Catalyzed Group Transfer Polymerization of Methyl Methacrylate
	Yougen Chen (Hokkaido University)
	Chairman: Prof. Wen-Chang Chen and Toshifumi Satoh
12:00 –	Poster award ceremony
12:30—	Lunch
14:00 –	Move to Dai-ichi Takimotokan, Noboribetsu from Sapporo Aspen Hotel
16:00 –	Integration meeting at Dai-ichi Takimotokan, Noboribetsu
	☆September 6 th , Sunday☆
	at Dai-ichi Takimotokan, Noboribetsu
8:00 – 9:50	Meeting for future collaboration at Dai-ichi Takimotokan, Noboribetsu
	Chairman: Prof. Wen-Chang Chen and Toshifumi Satoh
9:50 –	Closing remarks and Move to New Chitose Airport

List of Poster Session

\triangle September 3^{rd} , Thursday \triangle

16:30 - 18:00

at Seminar Room 1 (1st Floor), Frontier Research in Applied Sciences Building

P01	Synthesis and structure of macromolecular [3]rotaxane using α -cyclodextrin-based size-complementary [3]rotaxane Yosuke Akae (Tokyo Institute of Technology)
P02	Novel Highly Selective and Reversible Chemosensor Based on Fluorescent Electrospun Nanofibers with pH and Hg ²⁺ Bo-Yu Chen (National Taiwan University)
P03	Precise Synthesis of Sequnece-controlled Tetrablock Quaterpolymers by Means of Living Anionic Polymerization Yuri Matsuo (Tokyo Institute of Technology)
P04	Low Voltage Organic Field-effect Transistor Memory Devices using High k Water/methanol-soluble Polymer Dielectrics Chih-Chien Hung (National Taiwan University)
P05	Precise Synthesis of Star-Shaped Acrylate Polymer by Core-First Group Transfer Polymerization Takahiro Ito (Hokkaido University)
P06	Application of novel polymer sustained glutaraldehyde resin towards rapid extraction of sphingolipids Siddabasave Gowda B (Hokkaido University)
P07	Lewis acid-catalyzed Group Transfer Polymerization of N-Acryloylmorpholine with Hydrosilane Seiya Kikuchi (Hokkaido University)
P08	Effective Intramolecular Hydroamination of Polyallylurethanes with Pd-tethering Macrocycle Catalyst Hikaru Iwasaki (<i>Tokyo Institute of Technology</i>)
P09	Functionalization of nano-fibrillated bacterial cellulose (NFBC) via surface modification Junya Ohba (Hokkaido University)
P10	Synthesis of Stereoregular Block Copolyethers by t-Bu-P ₄ -Catalyzed Ring-Opening Polymerization of Epoxides Kana Miyachi (Hokkaido University)
P11	Anisotropic Biomineralization: Anisotropic Mineral Growth in Elongated Hydrogel Kazuki Fukao (Hokkaido University)
P12	Precise synthesis of multiblock acrylate polymers using organocatalyzed group transfer polymerization Kenji Takada (<i>Hokkaido University</i>)
P13	Study on the effect of ROS in dynamic instability of microtubules in vitro Md. Sirajul Islam (Hokkaido University)
P14	
114	$B(C_6F_5)_3$ -Catalyzed Group Transfer Polymerization of Methacrylic Esters Kodai Kitano ($Hokkaido\ University$)

P16	Cyclopolymerization of Norbornene End-Functionalized Poly(ε -caprolactone) Using Metathesis Catalyst Kouhei Honda ($Hokkaido\ University$)
P17	Spin-coated well-ordered nanostructures of wholly aromatic condensation polymers Ling Gao (<i>Tokyo Institute of Technology</i>)
P18	Fabrication of Tough Hydrogel Fiber Masanori Okada (<i>Hokkaido University</i>)
P19	Precise Synthesis of Trefoil-Shaped Poly(Butylene Oxide) via Ring-Opening Polymerization and Intramolecular Click Cyclization Hirohiko Matsuno (Hokkaido University)
P20	Novel Solution-Processable Sulfide-Containing Polyimide/ZrO ₂ Hybrids with Tunable Digital Memory Behaviors Chia-Liang Tsai (National Taiwan University)
P21	Preparation and conformational analysis of DNA brush Satoshi Nakamura (<i>Hokkaido University</i>)
P22	Bulk Ring-Opening Polymerization of Cyclic Esters Catalyzed by Diphenyl Phosphate Tatsuya Saito (<i>Hokkaido University</i>)
P23	Effect of side-chain bulkiness on the OTFT and OPV performance of two dimensional conjugated polymers based on 5,6-difluoro-benzo-2,1,3-thiadiazole and quarterthiophene units Shih-Hao Peng (National Chiao Tung University)
P24	Synthesis of Comb-Shaped Poly(vinyl ether)s and Their Surface Segregation Behaviors Shin Sugimoto (Kyushu University)
P25	Synthesis of Miktoarm Copolymers using Hydroxyl End-functionalized Poly(methyl methacrylate)s as Macroinitiators Eric Ofosu-Twum (Hokkaido University)
P26	Structural Analyses of Polyester in Solution State by VCD Takahiro Hongen (Hokkaido University)
P27	Synthesis of highly pure ethynyl end-functionalized poly(3-hexylthiophene) via Kumada catalyst transfer polycondensation Shoichi Takashima (<i>Hokkaido University</i>)
P28	Synthesis and Perpendicular Lamellar Orientation Control of Fluorine- and Silicon-containing Block Copolymers Hiroki Takano (Tokyo Institute of Technology)
P29	Enhanced Adjuvant Activity of double-stranded RNA by the Immobilization onto Gold Nanoparticles Taiyu Tazaki (<i>Hokkaido University</i>)
P30	Bulk polymerization of lactide using organophosphoric acids as a catalyst Yusuke Aizawa (<i>Hokkaido University</i>)
P31	Mechanism of poly(lactate-co-hydroxybutyrate) degradation by a soil bacterium depolymerase Camila Utsunomia (Hokkaido University)
P32	Synthesis of Amphiphilic Trefoil-shaped Block Copolyether Yusuke Satoh (<i>Hokkaido University</i>)
P33	Effects of Nuclei on Ring-Banded Spherulitic Morphology of Poly(3-hydroxybutyric acid-co-3-hydroxyvaleric) Co-crystallized with Poly(trimethylene adipate) Chun Ning Wu (National Cheng Kung University)

P34	Effect of Arm Number and Arm Length on Thermoresponsive Propertiy of Star-Shaped Poly(N-isopropylacrylamide) Kohei Yoshida (Hokkaido University)
P35	An Effect of Plasma Treatment on Aggregation States of Polystyrene Surface Ruriko Matsuyama (Kyushu University)
P36	Synthesis, Morphology and Properties of Poly(3-hexylthiophene)-block-Pendent Poly(isoindigo) Donor-Acceptor Block Polymers for High Performance Nonvolatile Transistor Memory Jau-Tzeng Wang (National Taiwan University)
P37	Precision Synthesis and Orientation Structural Control of Silicon-containing Block Copolymers in Thin Films For Next Generation Lithography Materials Rin Odashima (Tokyo Institute of Technology)