

## ***JTBPS 2017 Program at a Glance***

### **DAY 1 (Tuesday, September 5):**

Registration and welcome reception

### **DAY 2 (Wednesday, September 6):**

Begin	End	Speaker	Name	Moderator
8:30	8:50	Open		
8:50	9:00	Opening remarks		
9:00	9:35	<b>PL-T-01</b>	<b>Show-An Chen</b>	Akira Hirao
9:35	9:55	IL-T-01	Kung-Hwa Wei	Wen-Chang Chen
9:55	10:15	IL-J-01	Akira Hirao	
10:15	10:35	IL-T-02	Rong-Ming Ho	
10:35	10:50	<b>Break 15 min</b>		
10:50	11:10	IL-J-02	Takashi Ishizone	Kung-Hua Wei
11:10	11:30	IL-T-03	Der-Jang Liaw	
11:30	11:50	IL-J-03	Toshifumi Satoh	
11:50	12:10	IL-T-04	Guey-Sheng Liou	
12:10	13:40	<b>Lunch (Poster Session)</b>		
13:40	14:15	<b>PL-J-01</b>	<b>Yasuyuki Tezuka</b>	Takashi Ishizone
14:15	14:35	IL-T-05	Ching Hsuan Lin	
14:35	14:55	IL-J-04	Mitsutoshi Jikei	
14:55	15:10	<b>Break 15 min</b>		
15:10	15:30	IL-T-06	Yung Chang	Rong-Ming Ho
15:30	15:50	IL-J-05	Teruaki Hayakawa	
15:50	16:10	IL-T-07	Jiun-Tai Chen	
16:10	16:25	<b>Break 15 min</b>		
16:25	16:45	IL-J-06	Ken'ichiro Matsumoto	Toshifumi Satoh
16:45	17:05	IL-T-08	Jane Wang	
17:05	17:25	IL-J-07	Takeshi Serizawa	
17:25	17:35	<b>Photo Opportunity</b>		
18:00	20:00	<b>Banquet (Café Azuma)</b>		

**DAY 3 (Thursday, September 7):**

Begin	End	Speaker	Name	Moderator
9:00	9:35	<b>PL-T-02</b>	<b>Chain-Shu Hsu</b>	Mitsuru Ueda
9:35	9:55	IL-J-08	Yuji Shibasaki	Guey-Sheng Liou
9:55	10:15	IL-T-09	Shiao-Wei Kuo	
10:15	10:35	IL-J-09	Seigou Kawaguchi	
10:35	10:50	<b>Break 15 min</b>		
10:50	11:10	IL-J-10	Keiji Tanaka	Hsin-Lung Chen
11:10	11:30	IL-T-10	Fang-Chyou Chiu	
11:30	11:50	IL-J-11	Jiro Kumaki	
11:50	12:10	IL-T-11	Ya-Sen Sun	
12:10	13:15	<b>Lunch</b>		
13:15	13:50	<b>PL-J-02</b>	<b>Junji Kido</b>	Teruaki Hayakawa
13:50	14:10	IL-T-12	Shih-Huang Tung	Seigou Kawaguchi
14:10	14:30	IL-J-12	Hiroshi Jinnai	
14:30	14:50	IL-T-13	Jeng-Shiung Jan	
14:50	15:05	<b>Break 15 min</b>		
15:05	15:25	IL-T-14	Masaki Horie	Keiji Tanaka
15:25	15:45	IL-J-13	Tadashi Inoue	
15:45	16:05	IL-T-15	Wen-Ya Lee	
16:05	16:25	IL-J-14	Takeo Suga	
16:25	16:35	<b>Break 10 min</b>		
16:35	16:55	IL-J-15	Ryohei Kakuchi	Jiun-Tai Chen
16:55	17:15	IL-T-16	Yu-Cheng Chiu	
17:15	17:35	IL-J-16	Shingo Kobayashi	
17:35	17:45	Closing remarks /Poster award		

**DAY 4 (Friday, September 8):**

Post Conference

9:00-11:00 Visiting to Innovation Center for Organic Electronics (INOEL) at Yamagata University and Smart Mirai House

11:00-17:00 Free

17:00-18:30 JT-Integration meeting at Koyo Ryokan, Kaminoyama

Begin	End	Speaker	Name	Moderator
17:00	17:15	YIL-01	Takuya Isono	Atsushi Narumi
17:15	17:30	YIL-02	Chen-Tsyr Lo	
17:30	17:45	YIL-03	Yukari Oda	
17:45	18:00	YIL-04	Raita Goseki	Ryohei Kakuchi
18:00	18:15	YIL-05	Kazuhiro Nakabayashi	

# ***JTBPS 2017 Program***

## **DAY 1 (Tuesday, September 5):**

Registration and welcome reception

## **DAY 2 (Wednesday, September 6):**

8:30-8:50

**Open**

8:50-9:00

**Opening Remarks**

Moderator: *Akira Hirao*, Tokyo Institute of Technology, National Taiwan University, National Chiao Tung University

9:00-9:35

**PL-T-01          Progress of Semiconductive Polymers for Opto-Electronic Interconversion**

***Show-An Chen***, National Tsing Hua University

Moderator: *Wen-Chang Chen*, National Taiwan University

9:35-9:55

**IL-T-01          Side-Chain Engineering for Tuning the Polymer Structures and Performances of Ternary Blends Polymer Solar Cells**

***Kung-Hwa Wei***, National Chiao Tung University

9:55-10:15

**IL-J-01          Synthesis of Mixed Arm Star-Branched Polymers by Iterative Methodology Using Block Copolymer In-Chain Anions**

***Akira Hirao***, Tokyo Institute of Technology, National Taiwan University, National Chiao Tung University

10:15-10:35

**IL-T-02 Homochiral Evolution in Self-Assembled Chiral Polymers and Block Copolymers**

**Rong-Ming Ho**, *National Tsing Hua University*

10:35-10:50

**Break (15 min)**

Moderator: Kung Hwa Wei, *National Chiao Tung University*

10:50-11:10

**IL-J-02 Anionic Polymerization of *p*-Divinylbenzene Derivatives Carrying Adamantyl Groups**

**Takashi Ishizone**, *Tokyo Institute of Technology*

11:10-11:30

**IL-T-03 Advanced Polymeric Materials for High performance, Photonics and Optoelectronics Applications**

**Der-Jang Liaw**, *National Taiwan University of Science and Technology*

11:30-11:50

**IL-J-03 Synthesis and Morphological Study of Star-block Copolymers Consisting of Polycaprolactone and Oligosaccharide**

**Toshifumi Satoh**, *Hokkaido University*

11:50-12:10

**IL-T-04 Design and Preparation of Triphenylamine-based Polymeric Materials Towards Emergent Optoelectronic Applications**

**Guey-Sheng Liou**, *National Taiwan University*

12:10-13:40

**Lunch**

**Poster Session:** Lounge at the 2<sup>nd</sup> floor of Building #11

Moderator: Takashi Ishizone, Tokyo Institute of Technology

13:40-14:15

**PL-J-01**      **Topological Polymer Chemistry Designing  
Macromolecular Graph Constructions**  
Yasuyuki Tezuka, Tokyo Institute of Technology

14:15-14:35

**IL-T-05**      **Synthesis of A Bisbenzylideneacetone-containing  
Benzoxazine and Its Photo- and Thermally-cured  
Thermoset**  
Ching Hsuan Lin, National Chung Hsing University

14:35-14:55

**IL-J-04**      **Synthesis and Properties of Multiblock Copolymers  
Containing Poly(aryl ether sulfone) as Hard Segments**  
Mitsutoshi Jikei, Akita University

14:55-15:10

**Break (15 min)**

Moderator: Rong-Ming Ho, National Tsing Hua University

15:10-15:30

**IL-T-06**      **Design and Development of Bio-inspired Zwitterionic  
Polymeric Membranes for Advanced Healthcare  
Potentials** Yung Chang, Chung Yuan Christian University

15:30-15:50

**IL-J-05**      **Silicon- and/or Fluorine-containing Block Copolymers  
For Nanofabricating Materials**  
Teruaki Hayakawa, Tokyo Institute of Technology

15:50-16:10

**IL-T-07**      **Three-Dimensional Block Copolymer Nanostructures by Wetting Nanopores in Anodic Aluminum Oxide Templates**  
*Jiun-Tai Chen, National Chiao Tung University*

16:10-16:25

**Break (15 min)**

Moderator: *Toshifumi Satoh, Hokkaido University*

16:25-16:45

**IL-J-06**      **Microbial Synthesis of Biodegradable and Hydrolytically Degradable Polyesters**  
*Ken'ichiro Matsumoto, Hokkaido University*

16:45-17:05

**IL-T-08**      **Synthesis and Construction of Biodegradable Polymeric-Mineral Composite Scaffolds for Bone Tissue Regeneration**  
*Jane Wang, National Tsing Hua University*

17:05-17:25

**IL-J-07**      **Enzymatically Synthesized Cellulose Oligomers and their Derivatives as Novel Self-Assembling Biomatters**  
*Takeshi Serizawa, Tokyo Institute of Technology*

17:25-17:35

**Photo Opportunity**

18:00-20:00

**Banquet (Café Azuma)**

**DAY 3 (Thursday, September 7):**

Moderator: Mitsuru Ueda, Tokyo Institute of Technology, Yamagata University,  
National Taiwan University

9:00-9:35

**PL-T-02          Synthesis of Conjugated Polymers for OPV and  
OTFT Applications**

**Chain-Shu Hsu**, National Chiao Tung University

Moderator: Guey-Sheng Liou, National Taiwan University

9:35-9:55

**IL-J-08          Rapid Synthesis of A Novel Type Thermostable  
Poly(ether)-*b*-Poly(amide) (PEBA) with Well-Defined  
Aramide Segments**

**Yuji Shibasaki**, Iwate University

9:55-10:15

**IL-T-09          From Block Copolymer Mixtures to Mesoporous Materials**

**Shiao-Wei Kuo**, National Sun Yat-Sen University

10:15-10:35

**IL-J-09          Refractive Index Control of Transparent Optical Polymers  
by Nano-dispersion of ZrO<sub>2</sub> Nano-particles into Polymers**

**Seigou Kawaguchi**, Yamagata University

10:35-10:50

**Break (15 min)**

Moderator: Hsin-Lung Chen, National Tsing Hua University

10:50-11:10

**IL-J-10          Relaxation Behavior of Polymer Chains at Interfaces**

**Keiji Tanaka**, Kyushu University



11:10-11:30

**IL-T-10**      **Miscible and Immiscible Blends-Based Nanocomposites**  
*Fang-Chyou Chiu, Chang Gung University*

11:30-11:50

**IL-J-11**      **Visualization of Polymer Chain Structures in Two-Dimensional Films by Atomic Force Microscopy**  
*Jiro Kumaki, Yamagata University*

11:50-12:10

**IL-T-11**      **Effects of Cross-linking density of UV Irradiated Polystyrene Chains on Domain Orientation and Spatial Order of Block Copolymer Nanodomains**  
*Ya-Sen Sun, National Central University*

12:10-13:15

**Lunch**

Moderator: *Teruaki Hayakawa, Tokyo Institute of Technology*

13:15-13:50

**PL-J-02**      **Recent Progress in Organic Light-Emitting Devices**  
*Junji Kido, Yamagata University*

Moderator: *Seigou Kawaguchi, Yamagata University*

13:50-14:10

**IL-T-12**      **One-Step Electrospinning to Produce Nonsolvent-Induced Macroporous Fibers with Ultrahigh Oil Adsorption Capability**  
*Shih-Huang Tung, National Taiwan University*

14:10-14:30

**IL-J-12**      **Nano-scale Structural Observations of Unstained Polymeric Materials by Transmission Electron Microscopy**  
*Hiroshi Jinnai, Tohoku University*

14:30-14:50

**IL-T-13 Self-Assembly of Polypeptide-Based Copolymers for Drug/Protein Encapsulation**

**Jeng-Shiung Jan**, *National Cheng Kung University*

14:50-15:05

**Break (15 min)**

Moderator: Keiji Tanaka, *Kyushu University*

15:05-15:25

**IL-T-14 Photoresponsive Dynamic Crystals and Polymers**

**Masaki Horie**, *National Tsing Hua University*

15:25-15:45

**IL-J-13 A Rheo-Optical Study on Reinforcement Effect of Silica particles Filled Rubbers**

**Tadashi Inoue**, *Osaka University*

15:45-16:05

**IL-T-15 N-type Doped Donor-Acceptor Conjugated Polymers for Non-Volatile Memory**

**Wen-Ya Lee**, *National Taipei University of Technology*

16:05-16:25

**IL-J-14 Controlled Radical Polymerization in Photo-curing toward Unique Graded Nanostructures**

**Takeo Suga**, *Waseda University*

16:25-16:35

**Break (10 min)**

Moderator: Jiun-Tai Chen, National Chiao Tung University

16:35-16:55

**IL-J-15      A Synthetic Utility of the Kabachnik-Fields Reaction in  
Polymer Chemistry**

Ryohei Kakuchi, Gunma University

16:55-17:15

**IL-T-16      Intrinsically Stretchable and Healable Semiconducting  
Polymer for Skin-Inspired Wearable Transistors**

Yu-Cheng Chiu, National Taiwan University of Science and  
Technology

17:15-17:35

**IL-J-16      A Study on Blood-compatibility of Polymers with  
Precisely Designed Molecular Architectures**

Shingo Kobayashi, Kyushu University

17:35-17:45

**Closing Remarks/Poster award**

**DAY 4 (Friday, September 8):**

**Post Conference**

9:00-11:00 Visiting to Innovation Center for Organic Electronics (INOEL) at Yamagata University and Smart Mirai House

11:00-17:00 Free

**17:00-18:30 JT-Integration meeting at Koyo Ryokan, Kaminoyama**

Moderator: Atsushi Narumi, Yamagata University

17:00-17:15

**YIL-01 Synthesis of Architecturally Complex Block Copolyethers via Supar Base-Catalyzed Living Ring Opening Polymerization**

Takuya Isono, Hokkaido University

17:15-17:30

**YIL-02 Core-Shell Nanoparticles and Its Application to Amphiphilic Transistor-Type Memories**

Chen-Tsyrr Lo, Yamagata University

17:30-17:45

**YIL-03 Interfacial Properties of Bio-inert Polymer Hydrogel Films** Yukari Oda, Kyushu University

Moderator: Ryohei Kakuchi, Gunma University

17:45-18:00

**YIL-04**      **Crystalline-induced Mechanochromism of Mechano-responsive Polymers Based on Bond Dissociation**  
**Raita Goseki**, Tokyo Institute of Technology

18:00-18:15

**YIL-05**      **Development of Semiconducting Polymers by Direct Arylation Polycondensation**  
**Kazuhiro Nakabayashi**, Yamagata University

## **Poster Presentations**

- PO-01**      **Enhancement Device Performance and Stability of Organic Photovoltaics via Incorporating Multifunctional Additives**  
*Ying-Chieh Chao, Yu-Hua Liao, Jui-Chih Kao, Chih-Ping Chen\*, and Ru-Jong Jeng\*, National Taiwan University*
- PO-02**      **Transistor Type Memory Devices with Imide-epoxy Polymers**  
*Chun-Kai Chen, Nian-Tin Lee, Shih-Chieh Yeh, Chin-Ti Chen\*, Ru-Jong Jeng\*, National Taiwan University*
- PO-03**      **Mechanically Robust Stretchable Inverted Organic Solar Cells through Buckle-on-elastomer Strategy**  
*Yun-Ting Hsieh, Jung-Yao Chen, Chien-Chung Shih, Wen-Chang Chen\*, National Taiwan University*
- PO-04**      **Fabricating the Highly Conductive and Stretchable Epoxy/Acrylonitrile Butadiene Rubber Blend Electrospun Fiber Coated with the AgNW/Waterborne Polyurethane**  
*Hsin-Yu Liu, Hui-Ching Hsieh and Wen-Chang Chen\*, National Taiwan University*
- PO-05**      **Synthesis of Macrocyclic Block Copolymer Consisting of Poly(3-hexylthiophene)**  
*Saburo Kobayashi, Takuya Yamamoto, Kenji Tajima, Takuya Isono, Toshifumi Satoh, Hokkaido University*
- PO-06**      **Facile Access to Multicyclic Polymers via Intramolecular Consecutive Cyclization**  
*Yoshinobu Mato, Kohei Honda, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh, Hokkaido University*

- PO-07**      **Synthesis and Microphase Separation Behavior of Block Copolymers Consisting of Oligosaccharide and Poly( $\delta$ -decanolactone)**  
*Saki Nakahira, Takuya Yamamoto, Kenji Tajima, Takuya Isono, Toshifumi Satoh, Hokkaido University*
- PO-08**      **Anionic Polymerization of 3-Alkylbenzofulvenes**  
*Tatsuhiko Matsubara, Yuki Kosaka, Satoshi Uchida, Raita Goseki, and Takashi Ishizone, Tokyo Institute of Technology*
- PO-09**      **Anionic Polymerization of Styrene Derivative Containing N=CR<sub>2</sub> Moiety**  
*Takamasa Iso, Raita Goseki, Satoshi Uchida, Takashi Ishizone, Tokyo Institute of Technology*
- PO-10**      **Synthesis of Thermoresponse Water-soluble Graft Polymethacrylates through Graft-onto Method**  
*Fan Zhang, Raita Goseki, Satoshi Uchida, Takashi Ishizone Tokyo Institute of Technology*
- PO-11**      **Aggregation States and Adhesion Properties of (Thermoplastic/Thermosetting) Polymer Interface**  
*Kosuke Fujino<sup>1</sup>, Manabu Inutsuka<sup>1</sup>, Norifumi L. Yamada<sup>2</sup>, Keiji Tanaka<sup>1</sup>, <sup>1</sup>Kyushu University, <sup>2</sup>High Energy Accelerator Research Organization*
- PO-12**      **Cellular Response to External Stimuli via Elastic Scaffolds**  
*Hiroki Kawasaki, Hisao Matsuno, and Keiji Tanaka, Kyushu University*
- PO-13**      **Frictional Properties of Poly(vinyl ethers-co-acrylates)-Grafted Interfaces**  
*Yuki Ogusa, Yukari Oda, Daisuke Kawaguchi, and Keiji Tanaka, Kyushu University*

- PO-14**      **Observation of Morphological Evolution and Domain Coarsening of Lamellar-forming Block Copolymer in Thin Film**  
*Ryuichi Nakatani, Teruaki Hayakawa, Tokyo Institute of Technology*
- PO-15**      **Use of Hyperbranched Polystyrene as A Modifier of Poly(*N*-isopropylacrylamide) on Polystyrene Dishes to Fabricate Thermo-responsive Cell Culture Surfaces**  
*Yu Sudo, Yuta Nabae, Teruaki Hayakawa, Masa-aki Kakimoto, Tokyo Institute of Technology*
- PO-16**      **Fabrication of Nanostructures on Polyimide Film Surfaces by Soft-Template Method and Reactive Ion Etching**  
*Takahiro Komamura, Teruaki Hayakawa, Tokyo Institute of Technology*
- PO-17**      **Controlled Photo-curing of Acrylates from Glycidyl-Containing Polymeric Dormant for Nano Hybrid Film Formation**  
*Eigo Ando, Takeo Suga, Hiroyuki Nishide, Waseda University*
- PO-18**      **Hydrophilicity Switching of Diamine Polymer Coatings via CO<sub>2</sub> Capture Under Water**  
*Yusuke Sahashi, Takeo Suga, Hiroyuki Nishide, Waseda University*
- PO-19**      **Ion Conductive Core-shell Nanoparticles via Site-selective Quaternization of Azole-azolium Salt Type Block Copolymers**  
*Yuta Isawa, Kazuhiro Nakabayashi, Chen-Tsyrr Lo, Hideharu Mori, Yamagata University*



- PO-20**      **Synthesis and Self-assembly of Amino Acid Based-block Copolymers Having Multi-stimuli Responsive Properties**  
*Ryo Sugawara, Kazuhiro Nakabayashi, Hideharu Mori,*  
*Yamagata University*
- PO-21**      **Development and Characterization of High Transparent and High Refractive Index Polymers by Thiol-Ene Type Click Reaction**  
*Shigeki Sobu<sup>1</sup>, Kazuhiro Nakabayashi<sup>1</sup>, Kyouhei Nishio<sup>2</sup>, Yuji Kosuge<sup>2</sup>, and Hideharu Mori<sup>1</sup>, <sup>1</sup>Yamagata University, <sup>2</sup>FUJI CHEMICALS INDUSTRIAL CO., LTD.*
- PO-22**      **Synthesis and Characterization of Alkaline Soluble Triazine-based Poly(phenylene sulfide)s with High Refractive Index and Low Birefringence**  
*Mao-Chun Fu, Mitsuru Ueda, Tomoya Higashihara,*  
*Yamagata University*
- PO-23**      **Synthesis of Polythiophene Derivative Containing Oligoisobutylene Side Chain**  
*Satoshi Miyane, Tomoya Higashihara, Yamagata University*
- PO-24**      **Nonstoichiometric Stille Coupling Polycondensation Based on Intramolecular Pd Catalyst Transfer on Dibromo Monomer with An Imide Group**  
*Kosuke Terayama, Eisuke Goto, Tomoya Higashihara,*  
*Yamagata University*