

International Student Workshop on Aromatic Functional Polymers 2023



*16 November 2023
Collaboration Room
West Bldg. 9
Tokyo Tech*



International Student Workshop on Aromatic Functional Polymers

***Adjunct to the 31st Japan Polyimide and
Aromatic Polymers Conference***

Program

16th November 2023

Tokyo Institute of Technology

Ookayama, West-9th Bldg, Collaboration room

International Student Workshop on Aromatic Functional Polymers 2023

9:00, Meet-up at Ookayama Sta. for students

9:05 ~ 9:20 Short Campus Tour and Registration for student

9:25 ~ 9:30 Opening Remarks

Invited lectures, 9:30—10:50 (35 min presentation and 5 min Q&A)

		Chair Person: Prof. Shinji ANDO
9:30 ~ 10:10	IL-1	Dr. Fukuta Seijiro (Taiyo hld., Japan) <i>Development of Colorless Polyimide Films</i>
10:10 ~ 10:50	IL-2	Prof. Seo Myungeun (KAIST, Korea) <i>Emergence of order via polymerization and sequence matching</i>

10:50—10:55, Short Break

Student Session (1), 10:55—11:55 (10 min presentation and 3 min Q&A)

		Chair Person: DAI Junming (Univ. Chinese Academy of Sci.) MOMOZE Atsuto (Tokyo Tech)
10:55 ~ 11:10	L-1	OH Taeseok (KAIST, prof. Seo Myungeun lab) <i>Catalytic deoxygenation of polyacrylonitrile to synthesize functional polypropylene</i>
11:10 ~ 11:25	L-2	WATANABE Yusuke (Tokyo Tech-Tokita lab) <i>Low-temperature graphitization of poly(acrylonitrile) densely grafted onto nanoparticle surface</i>
11:25 ~ 11:40	L-3	SHAO Yu-Jen (NTU) <i>A facile approach for preparation of triphenylamine-containing electrochromic polyvinyl acetals</i>
11:40 ~ 11:55	L-4	KONG Youngwon (Tokyo Tech-Nabae lab) <i>Self-assembly and carbonization of poly(4-vinyl pyridine)-b-poly(2,2,2-trifluoroethyl methacrylate) for fabrication of mesoporous carbons</i>

11:55 ~ 12:05, Rearrange the tables for Luncheon Meeting

12:05 ~ 13:05 Luncheon Meeting (*SUSHI* Bento)

Brief Introductions of Participating Universities (5~10 min per one group)

1. National Taiwan Univ. (NTU), 2. TokyoTech, 3. Univ. Chinese Academy of Sci.,
4. Yamagata Univ., 5. Taiwan Tech. , 6. Ochanomizu Univ., 7. KAIST

Student session (2), 13:05—13:50 (10 min presentation and 3 min Q&A)

		Chair Person: KIYOURA Masamichi (Tokyo Tech-Tokita lab) YOON Young Rok (KAIST, prof. Kim SangYoul lab)
13:05 ~ 13:20	L-5	CHUANG Ren-Yun (NTU) <i>Electroactive hyperbranched aromatic polyamides based on A₂B-type triphenylamine moieties</i>
13:20 ~ 13:35	L-6	DOI Marina (Tokyo Tech-Ando lab) <i>Comparison of optical properties of imide compounds containing sulfur and pentacyclic cores dispersed in PMMA under continuous UV irradiation</i>
13:35 ~ 13:50	L-7	DAI Junming (Univ. Chinese Academy of Sci.) <i>Soluble polymers incorporating Tröger's base for proton exchange membrane fuel cells</i>

13:50 ~ 13:55, Short Break

Student session (3), 13:50—14:40 (10 min presentation and 3 min Q&A)

		Chair Person: SHAO Yu-Jen (NTU) OYAMA Kazuki (Tokyo Tech-Ishige lab)
13:55 ~ 14:10	L-8	KIYOURA Masamichi (Tokyo Tech-Tokita lab) <i>Aggregation states of side-chain carbazole moieties of syndiotactic poly(substituted methylene)s</i>
14:10 ~ 14:25	L-9	YOON Young Rok (KAIST, prof. Kim SangYoul lab) <i>Synthesis of Bipolar Polymer Cathodes Functionalized with Naphthol Groups for High-Performance Alkali-Ion Batteries</i>
14:25 ~ 14:40	L-10	MARUI Rika (Tokyo Tech-Hayakawa lab) <i>Effect of Curing Agents on Higher-Order Structure, and Thermal Conductivity in Cured Liquid Crystalline Epoxy Resins</i>

14:40 ~ 15:00, Coffee Break

Please enjoy coffee, red tea, or green tea with doughnuts!

Student session (4), 15:00—15:45 (10 min presentation and 3 min Q&A)

		Chair Person: DOI Marina (Tokyo Tech-Ando lab) ZHONG Kai-Cheng (Taiwan Tech)
15:00 ~ 15:15	L-11	WANG Yu-Jie (NTU) <i>Thermoset Epoxy Using Triphenylamine-Based Crosslinker for Multicolored Electrochromic Applications</i>
15:15 ~ 15:30	L-12	YAMAGUCHI Ai (Ochanomizu Univ.) <i>Photoinduced Perfluoroalkylation of Polystyrene groups</i>
15:30 ~ 15:45	L-13	CHO Suchan (KAIST, prof. Seo Myungeun lab) <i>Supramolecular polymerization via miktoarm core-crosslinked star polymer</i>

15:45 ~ 15:50, Short Break

Student session (5), 15:50—16:35 (10 min presentation and 3 min Q&A)

		Chair Person: OH Taeseok (KAIST, prof. Seo Myungeun lab) WATANABE Yusuke (Tokyo Tech-Tokita lab)
15:50 ~ 16:05	L-14	OYAMA Kazuki (Tokyo Tech-Ishige lab) <i>Composite of liquid-crystalline precursor with nanoclay toward vertically aligned rigid polyimide</i>
16:05 ~ 16:20	L-15	ZHONG Kai-Cheng (Taiwan Tech.) <i>Synthesis of Novel Alicyclic Dianhydride Containing Carbonyl Functional Groups and Properties of Derived Polyimides Investigation</i>
16:20 ~ 16:35	L-16	YOKAWA Kenta (Yamagata Univ.) <i>Direct Synthesis of π-Conjugated Polymers with Bromoaryl Groups on the Side Chains Based on Chemoselective Intramolecular Pd Catalyst Transfer System</i>

16:35 ~ 16:40, Short Break

Student session (6), 16:40—17:25 (10 min presentation and 3 min Q&A)

		Chair Person: MARUI Rika (Tokyo Tech-Hayakawa lab) CHUANG Ren-Yun (NTU)
16:40 ~ 16:55	L-17	YOON JunHyok (KAIST, prof. Kim SangYoul lab) <i>Synthesis of Thermo-responsive Diblock Copolymer via Switchable RAFT Polymerization</i>
16:55~ 17:10	L-18	MOMOZE Atsuto (Tokyo Tech-Ishige lab) <i>Uniquely low volumetric thermal expansion of siloxane-containing polyimide copolymers</i>
17:10 ~ 17:25	L-19	SHEN Yen-Jhen (Taiwan Tech) <i>Correlating the Substituent Effect of Alicyclic Polyimides with the Dielectric Constant and Dissipation Factor at a High Frequency of 20, 35, 50 GHz</i>

17:30 ~ 17:40 Closing Remarks

18:30 Banquet @ Ooimachi-Station