

Program

Sunday, June 2nd

09:00	Bus pickup @ Sendai station
09:00 – 10:20	Move to the venue by shuttle bus
10:30 – 11:30	Registration* Lobby (1F)
11:30 – 12:30	Lunch Emerald (3F)
12:30 – 14:00	S1: "Polymer Rheology - Viscosity, Elasticity and Viscoelasticity" Masao DOI , <i>Beihang University, China</i> Sapphire (3F)
14:00 – 14:20	Break
14:20 – 15:50	S2: "Electron Tomography - from Fundamentals to Application" Christian KÜBEL , <i>Karlsruhe Institute of Technology, Germany</i> Sapphire (3F)
15:50 – 16:10	Break
16:10 – 17:40	S3: "Polymer Characterization Based on Thermal Degradation" Clemens SCHWARZINGER , <i>Johannes Kepler University, Austria</i> Sapphire (3F)
17:40 – 18:00	Break
18:00 – 19:30	S4: "Solid State NMR at High and Low Field in Polymer Science: from Microstructure to Morphology" Roberto SIMONUTTI , <i>University of Milano-Bicocca, Italy</i> Sapphire (3F)
19:30 – 21:00	Welcome Reception Royal Hall (3F)

* Registration can be done during the following period:

- June 2nd (SUN) 10:30 – 19:30
- June 3rd (MON) 08:00 – 19:30
- June 4th (TUE) 08:00 – 19:00
- June 5th (WED) 08:00 – 13:00

Program

Monday, June 3rd

08:00 – 08:30	Registration , Lobby (3F)	
08:30 – 09:00	Opening , Royal Hall (3F)	
	Invited Talks: Spectroscopy , Chair: H.N. Cheng , Royal Hall (3F)	
09:00 – 09:30	I01: "Intramolecular and Intermolecular Interactions in Solid Polymers as Revealed by Solid-State NMR" Toshikazu MIYOSHI , <i>The University of Akron, USA</i>	
09:30 – 10:00	I02: "A New Strategy of Using MAIRS for Thin Film Analysis" Takeshi HASEGAWA , <i>Kyoto University, Japan</i>	
10:00 – 10:30	I03: "Mass Spectrometry for Structural Characterization of Polymers" Clemens SCHWARZINGER , <i>Johannes Kepler University, Austria</i>	
10:30 – 11:00	Panel Discussion #1	
11:00 – 11:20	Break	
11:20 – 12:00	Tea-time Seminar	
	Frontier Lab , Hirose (3F)	JEOL , Kitakami (3F)
12:00 – 18:00	Free Time (Note: Posters should be mounted @ 14:00–18:00)	
	Contributed Talks: Spectroscopy & Others	
	Chair: H. Sato , Sapphire (3F)	Chair: H. Hagihara , Emerald (3F)
18:00 – 18:20	C1.1: "A Novel Fast and Sensitive Stability Evaluation Method of Polymer Materials" Yang RUI , <i>Tsinghua University, China</i>	C2.1: "Deterministic and Stochastic Behavior in Protein Aggregation Processes" Wayne REED , <i>Tulane University, USA</i>
18:20 – 18:40	C1.2: "Crystallization and Hydrolysis Studies of Poly(Ester Urethane)" Dali YANG , <i>Los Alamos National Laboratory, USA</i>	C2.2: "Biopolymer Blends as Green and Eco-friendly Products - Preparation and Characterization" Huai N. CHENG , <i>USDA Southern Regional Research Center, USA</i>
18:40 – 19:00	C1.3: "The Nanomechanical Properties in Poly(3-hexylthiophene) Nanofibers" Yu SONG , <i>Jilin University, China</i>	C2.3: "Characterization of Natural Lacquer Films by Using FT-IR, NMR and PyGC/MS" Noriyasu NIIMURA , <i>JEOL</i>
19:00 – 19:20	C1.4: "Development of ESI-IMS-high resolution tandem mass spectrometry with CICS for analysis of highly multiply charged intact polymers" Shinya KITAGAWA , <i>NITech, Japan</i>	C2.4: "Filamentous Virus-based Assembly: Effect of Oriented Structures on Their Thermal Diffusivity" Toshiki SAWADA , <i>Tokyo Institute of Technology, Japan</i>
19:30 – 21:00	Poster Session	Dinner
19:30 – 20:15	odd-numbered posters	Lobby (3F)
20:15 – 21:00	even-numbered posters Abukuma, Hirose, & Kitakami (3F)	

Program

Tuesday, June 4th

08:00 – 08:30	Registration , Lobby (3F)		
	Invited Talks: Imaging , Chair: Y. M. Lam , Royal Hall (3F)		
08:30 – 09:00	I04: "Charged Multiblock Polymers: From Cosolvent-Templated Self-Assembly to Ultraporous Gas-Separation Membranes" Richard J. SPONTAK , <i>North Carolina State University, USA</i>		
09:00 – 09:30	I05: "TEM Imaging & Quantification in 2- and 3-Dimensions" Joachim LOOS , <i>DSM, Netherlands</i>		
09:30 – 09:40	Break		
09:40 – 10:10	I06: "Single-Molecule AFM Study on the Force-Induced Melting of Polymer Single Crystals" Wenke ZHANG , <i>Jilin University, China</i>		
10:10 – 10:40	I07: "Single Molecule Analysis of Polymeric Materials by Fluorescence Nanoscopy" Hiroyuki AOKI , <i>Japan Atomic Energy Agency, Japan</i>		
10:40 – 11:10	Panel Discussion #2		
11:10 – 11:30	Break**		
	Contributed Talks: Imaging & Scattering		
	Chair: J. Loos , Sapphire (3F)	Chair: H. Aoki , Emerald (3F)	
11:30 – 11:50	C3.1: "Imaging Amorphous Organic Materials by Scanning Transmission Electron Microscopy Pair Distribution Function Analysis" Christian KÜBEL , <i>Karlsruhe Institute of Technology, Germany</i>	C4.1: "Rapid, Automated Analysis of Microplastics Using Laser Direct Infrared Imaging and Spectroscopy" Masahiko ENDO , <i>Agilent Technologies</i>	11:30 – 11:45
		C4.2: "Electronic Structure of Silica Particles in Tyre Rubber Studied by STEM-EELS" Yasufumi KUWAUCHI , <i>Sumitomo Rubber Industries, Ltd.</i>	11:45 – 12:00
11:50 – 12:10	C3.2: "Dynamic Stress Network in Block-Copolymer Type Thermoplastic Elastomer" Ken NAKAJIMA , <i>Tokyo Institute of Technology, Japan</i>	C4.3: "Investigation of Polymer Volume Morphology Using Automated In-Situ Ultramicrotomy in SEM and 3D Reconstruction" Min WU , <i>Thermo Fisher Scientific</i>	12:00 – 12:15
		C4.4: "On-the-fly Computation of Intermediate Scattering Function for Molecular Dynamics Simulation" Takahiro MURASHIMA , <i>Tohoku University, Japan</i>	12:15 – 12:30
12:10 – 12:30	C3.3: "X-ray Phase-Contrast Imaging with Gratings – Future Potential for Polymer Materials Research" Wataru YASHIRO , <i>Tohoku University, Japan</i>		

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Tuesday, June 4th

Luncheon Seminar			
	Abukuma (3F)	Hirose (3F)	Kitakami (3F)
12:30 – 13:10	Park Systems Japan	Thermo Fisher Scientific	Agilent Technologies
13:10 – 13:20			
13:20 – 14:00	JEOL	Waters Corporation	Mel-Build
Invited Talks: Synchrotron + Scattering , Chair: G. J. Vancso , Royal Hall (3F)			
14:00 – 14:30	I08: "Building a New Range of Photon Science – Challenge of Super Lightsource for Industry Technology in Japan (SLIT-J) Project –" Masaki TAKATA , <i>Tohoku University, Japan</i>		
14:30 – 15:00	I09: "Application of Synchrotron Radiation X-ray Scattering and Spectroscopy to Soft Matter" Atsushi TAKAHARA , <i>Kyushu University, Japan</i>		
15:00 – 15:20	Break		
15:20 – 15:50	I10: "Polymer Adsorption on Clay Surfaces by Small Angle Neutron Scattering" Alan I. NAKATANI , <i>The Dow Chemical Company, USA</i>		
15:50 – 16:20	I11: "Block Copolymer Blends: From Fine Tuning of Morphologies to Novel Superstructures" Volker ABETZ , <i>University of Hamburg, Germany</i>		
16:20 – 16:50	Panel Discussion #3		
16:50 – 17:10	Break		
Contributed Talks: Synchrotron + Scattering			
Chair: V. Abetz , Sapphire (3F)		H. Marubayashi , Emerald (3F)	
17:10 – 17:30	C5.1: "Characterisation of Polymers by Simultaneous Extended Q-Range Small-Angle Neutron Scattering and in-situ Light Absorption Techniques" Aurel RADULESCU , <i>Heinz Maier-Leibnitz Zentrum, Germany</i>	C6.1: "Structural Development During Gelation of Tetra-Arm Polymer Solutions" Shintaro NAKAGAWA , <i>The University of Tokyo, Japan</i>	17:10 – 17:25
		C6.2: "Molecular Dynamics of Ring on Polymer in Polyrotaxane Investigated by Quasi-elastic Neutron Scattering and MD Simulation" Koichi MAYUMI , <i>The University of Tokyo, Japan</i>	17:25 – 17:40
17:30 – 17:50	C5.2: "Semicrystalline Polyethylene Measurement by Polarized Resonant Soft X-ray Scattering" Dean DELONGCHAMP , <i>National Institute of Standards and Technology, USA</i>	C6.3: "The Density Fluctuations of Amorphous Polymer under Deformation by Using In-Situ Small Angle X-Ray Scattering" Shotaro NISHITSUJI , <i>Yamagata University, Japan</i>	17:40 – 17:55
17:50 – 18:10		C5.3: "Coarse Grained MD Simulations and 2D Scattering"	

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Tuesday, June 4th

	Patterns of Filler Filled Rubber Systems" Katsumi HAGITA , <i>National Defense Academy, Japan</i>	C6.4: "Structure Analysis of Ideal Physical Gel Crosslinked with Double-Helix of DNA by Small-Angle Neutron Scattering" Li XIANG , <i>The University of Tokyo, Japan</i>	17:55 – 18:10
18:10 – 18:30	C5.4: "Analysis of Dynamic Polymer Brush by Adhesion Force Measurement" Hideaki YOKOYAMA , <i>The University of Tokyo, Japan</i>	C6.5: "Crystallization of Polymers under Shear Flow" Go MATSUBA , <i>Yamagata University, Japan</i>	18:10 – 18:30
18:30 – 19:00	Free Time		
19:00 – 21:00	Banquet Dinner*** Zao (2F)		

** Posters must be removed by June 4th (TUE) 11:30 (end of coffee break). Any posters that remain after this time limit will be discarded.

*** 1) A ceremony of "ISPAC 2019 Poster Award" for young scientists with best poster presentations and 2) a ceremony for the recipients of "ISPAC 2019 Travel Award" will be held.

Program

Wednesday, June 5th

08:00 – 08:30	Registration , Lobby (3F)		
	Invited Talks: Separation , Chair: T. Chang , Royal Hall (3F)		
08:30 – 09:00	I12: "Playing Analytical LEGO for the Unravelling of Polymer Nanostructure" Harald PASCH , <i>University of Stellenbosch, South Africa</i>		
09:00 – 09:30	I13: "Development of Switchable Chiral Stationary Phase for HPLC Using Dynamic Helical Polymers" Katsuhiko MAEDA , <i>Kanazawa University, Japan</i>		
09:30 – 10:00	I14: "Theory and Principles of Interaction Chromatography" Yongmei WANG , <i>The University of Memphis, USA</i>		
10:00 – 10:30	Panel Discussion #4		
10:30 – 10:50	Break		
	Contributed Talks: Separation, Synchrotron + Scattering, & Others		
	Chair: H. Ohtani , Sapphire (3F)	A. Takahara , Emerald (3F)	
10:50 – 11:10	C7.1: "Determination of Copolymerization Reactivity Ratios from Chemical Composition Distribution of Ethylene/1-Hexene Copolymers" Anton GINZBURG , <i>SABIC Europe B.V.</i>	C8.1: "Cylindrically Confined α -phase Nanostructure in Isotactic Polypropylene" Yan CAO , <i>Shenzhen University, China</i>	10:50 – 11:05
		C8.2: "Synchrotron-based SAXS Analyses on Microheterogeneity in UV Cured Poly(meth)acrylate Systems" Bing WU , <i>Royal College of Surgeons in Ireland, Ireland</i>	11:05 – 11:20
11:10 – 11:30	C7.2: "Transition to Slalom Chromatography for Chitosan in Size Exclusion Chromatography" Yonggang LIU , <i>Changchun Institute of Applied Chemistry, China</i>	C8.3: "Correlation between the Traditional Technique of Expression Methods about Black Lacquer and Microstructures with Ultraviolet Irradiation" Yoshimi KAMIYA , <i>Kanazawa University, Japan</i>	11:20 – 11:35
		C8.4: "Mechanical Property of Elastomers with Heterogeneous Structure Based on Complex Network" Yoshifumi AMAMOTO , <i>The University of Tokyo, Japan</i>	11:35 – 11:50
11:30 – 11:50	C7.3: "Field-Portable and Miniaturized Gas Chromatography – A Promising Technique for Polyolefin Research" Umesh GADGOLI , <i>Borouge Innovation</i>		

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11:50 – 12:10	C7.4: "Improved Analytical Characterization of Chemically Modified Hyaluronic Acid by Enzymatic Digestion Followed by qNMR or High-Resolution LC-MS Analysis" Amin FAMILI , <i>Genentech, Inc.</i>	C8.5: "Analysis and Description of The Higher Order Structures of Polymeric Materials in Meso Scale" Hiroshi MORITA , <i>National Institute of Advanced Industrial Science and Technology, Japan</i>	11:50 – 12:10
12:10 – 12:30	Closing , Royal Hall (3F)		
12:30 – 13:00	Free Time****		
13:00 – 18:00	Excursion to Matsushima		

**** For those who do NOT join the Excursion, we have a FREE shuttle bus to Sendai station.