

Schedule

Day	Time	Center Hall	60th Anniversary Hall			KIT Plaza		
			1F Lecture Room	1F Lobby	2F Seminar Room			
Oct.14th (Mon.)	13:00-16:30		Public Lectures (in Japanese)					
	16:30-18:00							
	18:00-20:00							India-Nepal-Japan Welcome Party
Oct.15th (Tue.)	9:00-12:30		4th IITG-KIT Joint Symposium	Registration				
	12:30-14:00						Indian Lunch	
	14:00-18:00		2nd India-Nepal- Taiwan-Japan Joint Symposium					
	18:00-20:00						ASP-19 Welcome Party	
Oct.16th (Wed.)	9:00-9:30	Opening Ceremony		Registration				
	9:30-12:10	ASP-19 Session						
	12:10-13:30						Luncheon seminar for Female Researchers & Young Scientists Including Students	Indian Lunch
	13:30-16:00	ASP-19 Industrial Forum	ASP-19 Session					
	16:00-18:00						Preparation for Poster Session & Exhibition Booth	
	18:00-20:00	Banquet at Kitayama Monolith						
Oct.17th (Thu.)	9:00-10:10	ASP-19 Industrial Forum	ASP-19 Session		Posting Posters/ Exhibition Booth			
	10:10-12:10	ASP-19 Session						
	12:10-14:00				Poster Session/ Exhibition Booth		Indian Lunch	
	14:00-16:00	ASP-19 Session						
	16:00-18:05				Withdrawal Posters/ Exhibition Booth			
	18:10-20:10				ASP-19 Industrial Forum(Party)			
Oct.18th (Fri.)	9:00-11:45		ASP-19 Special Session on PET Biodegradation		ASP-19 Session			
	11:45-12:00		Closing Ceremony					
	12:00-	Excursion						

Oct.15th(Tue.)

Venue: 60th Anniversary Hall 1F Lecture Room				
	Time	Title of Presentation	Speaker	Affiliation
4th IITG-KIT Joint Symposium				
JSI-01	9:00-9:30	Chitosan based CO ₂ -Selective Membranes for Post-Combustion CO ₂ -Separation	Bishnupada Mandal	Indian Institute of Technology Guwahati
JSI-02	9:30-10:00	Biopolymer and Their Composites as Biomaterials: Translational Potential and Challenges	Utpal Bora	Indian Institute of Technology Guwahati
JS-01	10:00-10:20	Fabrication of Biodegradable Poly(ϵ -caprolactone) Biocomposites	Purabi Bhagabati	Indian Institute of Technology Guwahati
JSI-03	10:20-10:50	In Vitro Productions of Monomeric Catechins from Plant Cells as Sustainable Natural Resource for Polymeric Medicinal Metabolite Production	Rakhi Chaturvedi	Indian Institute of Technology Guwahati
	10:50-11:00	Break		
JSI-04	11:00-11:30	Molecular Simulation Studies on Nanocomposites of Biodegradable Polymers and Bio-based Fillers	Amit Kumar	Indian Institute of Technology Guwahati
JS-02	11:30-11:50	Direct Production of D-lactic Acid from Cellobiose Using Engineered <i>Escherichia coli</i>	Yuji Aso	Kyoto Institute of Technology
JS-03	11:50-12:10	Diol Production in Engineered <i>Escherichia coli</i>	Rintaro Sato	Kyoto Institute of Technology
JS-04	12:10-12:30	Visualization of Electron Density Distribution of Linear Polymers in the Crystal State	Sono Sasaki	Kyoto Institute of Technology
	12:30-14:00	Group Photo / Lunch		
2nd India-Nepal-Taiwan-Japan Joint Symposium				
JSI-05	14:00-14:30	Compostable Polymer Composites Based on Copolyesters and Natural Fibers	Rameshwar Adhikari	Tribhuvan University
JS-05	14:30-14:50	Bacteriophage as a Natural Alteration for Antibiotics	Hirofumi Sunahara	Kyoto Institute of Technology
JS-06	14:50-15:10	Tuning Morphology and Mechanical Properties of Block Copolymer Modified Nanostructured Epoxy Resin	Shankar P. Khatiwada	Tribhuvan University
JSI-06	15:10-15:40	Molecular Dynamics Simulations Applied to Development of Sustainable Pressure Sensitive Adhesives from Bio-sources	Gaurav Manik	Indian Institute of Technology Roorkee
JS-07	15:40-16:00	Nanowire Transfer Model of Batch Type Microbial Fuel Cells	Tzu-Hsuan Lan	National Taipei University of Technology
	16:00-16:10	Break		
JSI-07	16:10-16:40	Precise Analysis for Crystallines in Spherulites of Poly(L-lactic acid)/Poly(D-lactic acid) Blend	Go Matsuba	Yamagata University
JS-08	16:40-17:00	Densification of Interfacial Region in Phase Separated Structure of Polystyrene-b-poly(n-butyl acrylate) Making X-ray Scattering Profiles Anomalous	Katsuhito Yamamoto	Nagoya Institute of Technology
JSI-08	17:00-17:30	Discontinuity of a Dimensional Change on a Temperature Drop in Three-Dimensional Structures	Sigeru Okamoto	Nagoya Institute of Technology
JS-09	17:30-17:50	Suppression of Hair Photodamage by Treatment with Rosmarinic Acid and Curcumin	Hidekazu Yasunaga	Kyoto Institute of Technology
	18:00-20:00	Welcome Party (Venue: 60th Anniversary Hall 2F Seminar Room)		

Oct.16th(Wed.)

Venue: Center Hall					Venue: 60th Anniversary Hall 1F Lecture Room				
	Time	Title of Presentation	Speaker	Affiliation		Time	Title of Presentation	Speaker	Affiliation
	9:00-9:30	Opening Ceremony (Venue: Center Hall)							
PL-01	9:30-10:10	Plenary Lecture Design for Sustainable Polymers - Setting Metrics & Requirements from Beginning and End-of-life	Ramani Narayan	Michigan State University					
PL-02	10:10-10:50	Plenary Lecture The Opportunity of Sustainable Materials	Gert-Jan M. Gruter	Avantium CTO/University of Amsterdam					
	10:50-11:00	Break							
PL-03	11:00-11:40	Plenary Lecture Circular Economy Driven Sustainable Composites: Future is Now for Innovation and the Opportunities in Mitigating Climate Change	Amar K. Mohanty	University of Guelph					
IL-01	11:40-12:10	ISO Standardization for Biodegradable and/or Biobased Plastics	Masao Kunioka	National Institute of Advanced Industrial Science and Technology (AIST)					
	12:10-13:30	Group Photo / Lunch							
Industrial Forum									
IL-02	13:30-13:50	Trend of Bioplastics in Japan	Takeshi Kanetaka	Japan BioPlastics Association (JBPA)	CT-01	13:30-13:50	Effect of Surface Treatment Agents on Durability of PLA/CF Composites	Kazushi Yamada	Kyoto Institute of Technology
IL-03	13:50-14:10	Biomass/Biodegradable Plastic, Polylactic Acid (PLA) Luminy®	Takeshi Kanetaka	Total Corbion PLA	CT-02	13:50-14:10	Reinforcement of Degradable Copolyester with Micro- and Nanocrystalline Cellulose Extracted from Wheat Stalk	Jyoti Giri	Tribhuvan University
IL-04	14:10-14:40	Influence of Age on the Mechanical Performance of PEF	H.A. Visser	Avantium Renewable Polymers	CT-03	14:10-14:30	Structural, Thermal and Mechanical Properties of Urea-formaldehyde (UF)-Natural Fiber Composites	Netra Lal Bhandari	Tribhuvan University
IL-05	14:40-15:00	Development and Business of Bioplastics as an Element of Circular Economy	Hiroshi Sano	Mitsubishi Chemical Corporation	IL-08	14:30-15:00	Functional Hydrogel Architectures Based on Hierarchical Structure of Bacterial Cellulose	Taka-Aki Asoh	Osaka University
	15:00-15:10	Break							
IL-06	15:10-15:40	Finally! A Bioplastic Solution for a Circular Economy How to Avoid the Biodegradation Minefield	Brad LaPray	BioLogiQ, Inc.	IL-09	15:10-15:40	Thermo-reversible Supramolecular Hydrogels of End-functionalized Methylcelluloses	Hiroshi Kamitakahara	Kyoto University
IL-07	15:40-16:00	Characteristics and Applications of Bio-based Polymers "Mainly Poly Lactic Acid and Heat Resistant Polyamide"	Kazue Ueda	Unitika Ltd.	CT-04	15:40-16:00	Functionalized Bacterial Nanocellulose through <i>In situ</i> Fermentation Process	Prodyut Dhar	Kyoto University
	18:00-20:00	Banquet (Venue: Kitayama Monolith)							

Oct.17th(Thu.)

Venue: Center Hall					Venue: 60th Anniversary Hall 1F Lecture Room				
	Time	Title of Presentation	Speaker	Affiliation		Time	Title of Presentation	Speaker	Affiliation
IL-10	9:00-9:30	70 Years old Bio-Based Engineering Polymer - Sustainable Business Development of Polyamide 11 -	Atsushi Miyabo	VP Arkema	CT-06	9:00-9:20	The Mechanical Property of DNA Films Governed by Water Molecules	Takashi Aoki	Kyoto Institute of Technology
IL-11	9:30-9:50	Aluminum-based Polyester Polymerization Catalyst, "Toyobo GS Catalyst®" and PET Polymerization Using the Heavy-metal Free Catalyst	Shinya Kanetaka	Toyobo Co., Ltd.	CT-07	9:20-9:40	Anhydride-cured Epoxy Resin Reinforcing with Citric Acid-modified Cellulose	Yu-I Hsu	Osaka University
IL-12	9:50-10:10	Eco-friendly Fiber Materials of Toray Industries, Inc.	Yoshitaka Aranishi	Toray Industries, Inc.	IL-16	9:40-10:10	Biofabrication of Customized Hydrogels for Tissue Regeneration and Drug Delivery	Tomoko Fujiwara	University of Memphis
IL-13	10:10-10:40	Biodegradability of Biodegradable Plastics in Marine Environments	Kenichi Kasuya	Gunma University	IL-17	10:10-10:40	Restore and Regenerate Our Natural Resources: High-value Biobased Products for Food and Biomaterials Applications	Amin Shavandi	University Libre de Bruxelles
	10:40-10:50	Break				10:40-10:50	Break		
IL-14	10:50-11:20	Utilization of Enzymatic Catalysis for Polymer Science	Akio Ebihara	Gifu University	CT-08	10:50-11:10	Microfibrillar Self-assembly of Fluorescein and Gd-chelate Conjugated 8-arm Polyethylene Glycol for MR Contrast Agent	Atsushi Mahara	National Cerebral and Cardiovascular Center Reserch Institute
IL-15	11:20-11:50	Characterization of Lignin From Waste Biomass of Northeast India for Application in Bitumen Enrichment	Lingaraj Sahoo	Indian Institute of Technology Guwahati	CT-09	11:10-11:30	Biodegradable Electrospun Composite Fibers Comprising Polycaprolactone, Poly-L-lactic Acid, Gelatin, Vitamin D3 and Natural Hydroxyapatite	Komal Prasad Malla	Tribhuvan University
CT-05	11:50-12:10	Identification of Polymer Species in Complex Mixture Samples by Pyrolysis-gas Chromatography-atmospheric Pressure Chemical Ionization Quadrupole Time-of-flight Mass Spectrometry (Py-APGC-MS) as a Basic Research for Environmental Microplastics	Hajime Ohtani	Nagoya Institute of Technology	CT-10	11:30-11:50	Imidazole 2-carboxaldehyde Chitosan Thiosemicarbazones: Synthesis, Characterization and Antioxidant Activity	Hari Sharan Adhikari	Tribhuvan University
	12:10-14:00	Lunch					Venue: 60th Anniversary Hall 2F Seminar Room		
IL-18	14:00-14:30	High-speed Melt Spinning of Bio-based Polymers	Takeshi Kikutani	Tokyo Institute of Technology		12:00-16:00	Poster Session		
IL-19	14:30-15:00	High Performance Biomass-based Biodegradable Plastics from Microbial Polyesters and Polysaccharide Ester Derivatives	Tadahisa Iwata	University of Tokyo					
IL-20	15:00-15:30	Syntheses of High-heat-resistant Polymeric Materials from Bio-based Chemicals	Hideki Abe	Riken, Japan					
IL-21	15:30-16:00	Melt Processing and Rheology of Recyclable Poly (lactic acid) Bionanocomposite	Vimal Katiyar	Indian Institute of Technology Guwahati					
	16:00-16:10	Break							
PL-04	16:10-16:50	Plenary Lecture Aliphatic Polyester : A Platform for the Design of Sustainable Materials	Swaminathan Sivaram	Honorary Professor and INSA Senior Scientist IISER					
PL-05	16:50-17:30	Plenary Lecture Enzymatic Polymerizations - Making Polymer Synthesis More Sustainable	Katja Loos	University of Groningen					
KL-01	17:30-18:05	Keynote Lecture Sustainable Packaging: Stiffness-toughness Balanced Green Composites based on Polylactide Ternary Blends	Manjusri Misra	University of Guelph					
	18:10-20:10	Industrial Forum (Party) (Venue: 60th Anniversary Hall 2F Seminar Room)							

Oct.18th(Fri.)

Venue: 60th Anniversary Hall 1F Lecture Room					Venue: 60th Anniversary Hall 2F Seminar Room				
	Time	Title of Presentation	Speaker	Affiliation		Time	Title of Presentation	Speaker	Affiliation
Special Session on PET Biodegradation									
KL-02	9:00-9:35	Keynote Lecture Biodegradation of Poly(ethylene terephthalate) (PET)	Kohei Oda	Kyoto Institute of Technology	CT-11	9:00-9:20	Foaming of Natural Rubber and Cellulose with Supercritical CO ₂	Hiromu Saito	Tokyo University of Agriculture and Technology
					CT-12	9:20-9:40	Thermally Processable and Heat Stable Block Copolymers Comprising Poly(ϵ -caprolactone) and Poly(Lactic acid): Influence of Block Length and Stereocomplexation on the Thermal and Mechanical Properties and Crystallization Behaviors	Neha Mulchandani	Indian Institute of Technology Guwahati
IL-22	9:35-10:05	Bacterial Poly(ethylene terephthalate) Metabolism by <i>Ideonella sakaiensis</i>	Shosuke Yoshida	Nara Institute of Science and Technology	CT-13	9:40-10:00	Mechanism of Improved Crystallization of Poly(L-lactic acid) by Plasticizers	Pham Thi Ngoc Diep	Kyoto Institute of Technology
IL-23	10:05-10:35	Structure, Function, and Engineering of Enzymes for Efficient Biological Degradation of PET Plastics Under Ambient Temperatures	Kyung-Jin. Kim	Kyungpook National University	CT-14	10:00-10:20	Exclusive Stereocomplex Crystallization in Poly(L-lactic acid)/Poly(D-lactic acid) Blends in the Presence of Silk Fibroin Nanodisc	Amit Kumar Pandey	Kyoto Institute of Technology
	10:35-10:45	Break				10:20-10:30	Break		
IL-24	10:45-11:15	Plant-based Thermoplastics, NuPlastiQ® and BioBlend®: for 'A World Free of Pollution Caused by Plastic Packaging'	Hajime Nakajima	BioLogiQ, Inc.	CT-15	10:30-10:50	Effects of Temperature and Voltage on the Spinnability of Melt Electrospinning	Huaizhong Xu	Kyoto Institute of Technology
IL-25	11:15-11:45	Marine Dgradation of Polyamide-4	Atsuyoshi Nakayama	National Institute of Advanced Industrial Science and Technology (AIST)	CT-16	11:50-11:10	Dehydrothermal Treatment for Improving Mechanical Properties of Collagen Film	Xuefei Chen	Kyoto Institute of Technology
					CT-17	11:10-11:30	Preparation and Physicochemical Characterization of Starch Based Bio-Films from Banana Peels	Rajesh Pandit	Tribhuvan University
	11:45-12:00	Closing Ceremony (Venue: 60th Anniversary Hall 1F Lecture Room)							

Poster Session

Oct.17th 12:00-16:00 (Venue: 60th Anniversary Hall 2F Seminar Room)

	Title	Authors
P01	Utilization of Marine Green Algae Residue to Nano Cellulose and Their Effects as a Crystallization Agent for Biodegradable Polymers	K.Mondal, S.Sakurai, Y.Okahisa, P.Bhagabati, V.V.Goud and V.Katiyar
P02	Relationship Between Kink Formation and Stress-strain Curve of Uniaxially-stretched SBS Triblock Copolymer Forming Lamellar Microdomain Structures	Ruito Tanaka, Hideaki Takagi, Nobutaka Shimizu, and Shinichi Sakurai
P03	Morphological Transition in Block Copolymer/Selective Solvent Systems by Temperature Change	Yuma Ito, Hideaki Takagi, Nobutaka Shimizu, and Shinichi Sakurai
P04	Investigation of Mapping for Electron Density Distribution on Polyethylene Crystals by Synchrotron Powder X-ray Diffraction and Maximum Entropy Method	K. Noso, K. Kato, M. Takata, S. Sakurai, S. Sasaki
P05	Effect of the Uncrystallizable 3-hydroxyhexanoate Content on Crystallization Behavior of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) from the Melt	Toan Nguyen Van, Toshiteru Nagata, Hiroyasu Masunaga and Sono Sasaki
P06	Investigation of Preferred Lamellar Orientation in Ultrathin Films of Melt-crystallized Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)	T. Nagata, H. Masunaga, T. Hikima, T. Hoshino, S. Sakurai and S. Sasaki
P07	Confined Crystallization of Poly(ethylene glycol) in a Poly(L-lactic acid) Spherulite in Their Blend Specimen	Apisit Banpean and Shinichi Sakurai
P08	PDMS Functionalized Electrospun Recycled PET Fibrous Membrane for Sustainable Oil-Water Separation	Hoan N. Doan, Phong P. Vo, K. Kinashi, W. Sakai, and N. Tsutsumi
P09	Polymeric Molecular Coating of PMMA Stereocomplex for Oxidation Resistance Property of Copper Surfaces	Mitsutaka GOTO, Yusuke HARA and Kaoru ADACHI
P10	Preparation and Gas Transport Properties of Polybenzoxazole-silica Hybrid Membranes	A. Saito, T. Suzuki
P11	Polyethyleneimine-crosslinked Cellulose Aerogel for Combustion CO ₂ Capture	C. Wang and S. Okubayashi
P12	Electrochemical Evaluation of the Ion Transport through an Ion Exchange Membrane	Yoshika Fukaya, Masashi Yoshida, Yumi Yoshida, and Kohji Maeda
P13	Synthesis of Antibacterial Biodegradable Plastic from Waste Paper and Curcuma Longa Powder	T.P.M. Sunthar, E. Marin, F. Boschetto, M. Zanocco, W. Zhu, and G. Pezzotti
P14	Synthesis of Poly(lactic acid) Diols via the Direct Polycondensation of Lactic Acid	Shu Ouchi, Masaki Yamamoto, Kazunari Masutani, Yoshiharu Kimura, Hideki Yamane
P15	Effects of Coating Process on Microphase-Separated Structures in Coated Layers Composed of Di- and Triblock Copolymer Blends	T.Doi, H.Takagi, N.Shimizu, N.Igarashi and S.Sakurai
P16	Comparison of Cellulose Nanofiber Properties Produced from Different Land Plants	Y.Okahisa, B.Pimthong, Y.Furukawa, and K.Yano
P17	Waterless Treatment of Cotton Fabrics Using Supercritical Carbon Dioxide	Heba Ghanayem and Satoko Okubayashi
P18	Electromechanical Properties of Electrospun Poly(lactic acid) Fibrous Mats	Takayuki Yui, Ryusei Kitayama, Yuya Ishii
P19	Epoxy Resin/Multiwalled Carbon Nanotubes Composite Coatings for Sensor Application	Sonam Tamang, Rameshwar Adhikari, Sabita Shrestha
P20	A Review on Natural Fibers Reinforced Degradable Polymer Composites	P. Gautam, N. L. Bhandari, S. Pradhan, R. Adhikari
P21	Fiber Formation of PA4 by Using Various Spinning Methods	Yuta Nakano, Le Nguyen Xuan Hoa, Hideki Yamane
P22	Design of Intracellular Environment-responsive Peptide Nanofibers for Antigen Delivery	T.Waku, A.Kobori, and N.Tanaka
P23	Fatigue Behavior of Carbon Fiber	M.Nagamitsu, S.Yagi, K.Yamaguchi, and H.Kobayashi
P24	Tensile and Fatigue Failure of Copoly(<i>para</i> -phenylene-3,4'-oxydiphenylene terephthalamide) Fiber	S.Yagi, K.Yamaguchi, M.Nagamitsu, and H.Kobayashi
P25	Fatigue Behavior of Aramid Fibers	K.Yamaguchi, S.Yagi, M.Nagamitsu, and H.Kobayashi
P26	Controlled Synthesis of Alternating Glycopolymers Based on RAFT Copolymerization Employing Carbohydrate-carrying Vinyl Monomers and Post Click Reaction	D.Shimizu, J.Motoyanagi, and M.Minoda
P27	Aqueous Synthesis of Glycopolymers Using Water-soluble Polymers with Pendant Activated Esters	Sotaro Tsuji and Tomonari Tanaka
P28	One-pot Chemo-enzymatic Synthesis of Glycopolymers via a Dimethoxy Triazinyl Glycoside	Ayane Matsuura and Tomonari Tanaka
P29	Swelling Properties of Alginate/DNA Hydrogels	T. Hashimoto and T. Aoki
P30	Regiospecific Accumulation of Metal Complexes at Phase-segregation Interface of Normally Oriented Cylindrical Nanostructure in Amphiphilic Liquid Crystalline Diblock Copolymer Film	M. Komoda, K. Nakao, S. Asaoka
P31	Photovoltaic Property of Circularly Arranged Multilayer Porphyrin Film	S.Aoki, S.Asaoka
P32	Efficiently Fluorescent Liquids Based on Silicon-bridged 2-Arylindoles	Mizuki Mineyama, and Masaki Shimizu
P33	Unprecedented Behaviors of Amphiphilic Porphyrins in Preferential Solvation and Molecular Assembly	M.Morisue
P34	Leuco-Based Color Dosimeter	Phu P. Vo, Hoan N. Doan, K. Kinashi, W. Sakai, and N. Tsutsumi
P35	Facile Analysis of Surface Structure in Triblock Copolymer Thin Films	R. Bayomi, T.Aoki, S. Sasaki, and S. Sakurai
P36	A Review of Low Cost CH ₄ Enrichment Process by Using Membrane Technology	Anant Dattatray Awastare, Sanjay D.Yadav
P37	Fabrication of Biodegradable Poly(ϵ -caprolactone) Biocomposites	Purabi Bhagabati, Naba Kumar Kalita, Vimal Katiyar
P38	Surface morphology observation and control of PLA thin film	H. Nakanishi and K. Yamada
P39	Evaluation of degradation process of PLA thin films using fluorescence spectroscopy	A. Odake and K. Yamada
P40	Magnetic Cellulose Nanofibers/Chitosan Based Edible Nano-Coating Facilitated by Curcumin for Cut Pineapple	T. Ghosh, Y. Teramoto, K. Nakano, and V. Katiyar