The 9th Asia-Pacific Rim Conference on Rheology (A-PRCR2025)
July 20 - 25, 2025, Kobe, Japan

July 21 (Mon), 2025

		Room A (Main Hall)	Room B (301)	Room C (501)	Room D (502)	Room E (504&505)
8:30 - 8:40		**Opening Remark** **Tadashi Inoue (Osaka Univerisity)**				
8:40 - 9:40		**Plenary 1** **Innovating the Rheology of Life: Microfluidic Insights into Erythrocytes, Platelets, and Coagulation Dynamics** ***SeHyun Shin (Korea University (Korea))** **Chair: Hyun Wook Jung (Korea University)**				
9:40 - 10:00		Break				
		G2. Non-Newtonian Fluid Mechanics & Microfluidics	G10. Bio-Related Materials & Bio/Medical-Rheology	G14. General Rheology	G13. Experimental Techniques	G7. Computational Rheology
Chair		Ian Frigaard (University of British Columbia)	Michael Simmonds (Biorheology Research Laboratory, Griffith University)	Jun-ichi Horinaka (Kyoto University)	Yumi Matsumiya (Kyoto University)	Prabhakar Ranganathan (Monash University)
10:00 - 10:20	1A01	Complex Flows of Thixo-Viscoelastoplastic Fluids: Theoretical Predictions and Experiments *J. Esteban Lopez-Aguilar1 (1 Chemical Engineering Department, Faculty of Chemistry, National Autonomous University of Mexico)	1B01 Impaired Deformability of Erythrocytes Obtained from Patients with Life-Style Related Diseases *Toru Maruyama1, Michinari Hieda2, Takehiko Fujino3 (1 Haradoi Hospital, 2 Kyushu University Hospital, 3 Institute of Rheological Functions of Foods)	1C01 Analyses of hierarchical structures in SBR rubber: Effects of silane coupling agents *Yohei Nakanishi1, Satoshi Sawada1,2, Hiroaki Kondo2, Motoki Shibata1, Tsukasa Miyazaki1, Mikihito Takenaka1, (1 Kyoto Univ., 2 CERI)	1D01 Rheometry with non-rheometric flows *Wook Ryol Hwang1 (1 Gyeongsang National University)	1E01 Large Scale Direct Numerical Simulation of Elastic Turbulence and Turbulent Drag Reduction *Xue-Feng Yuan1 (1 Guangzhou University)
10:20 - 10:40				1C02 The characterization of rubber composites with recycled carbon black from waste tires *Kazuki Shibasaki1, Ryohei Matsumoto1, Hiroki Ogawa1, Mikihito Takenaka1 (1 Kyoto Univ.)		
10:40 - 11:00	1A03	Mixing Localization in Yield-Stress Fluids: Insights from Two-Dimensional Stirring *Ida Karimfazli1, Mohammad Reza Daneshvar Garmroodi1 (1 Concordia University)	1B03 Calcium-dependent enhancement of human platelet pinocytosis at physiological shear rates *Masataka Inoue1, Aoi Takebayashi1, Nobuo Watanabe1 (1 Shibaura Institute of Technology)	1C03 Cancel	1D03 Growing length scale of dynamic heterogeneity during gelation of 4-arm polyethylene glycol hydrogel *Weixiang Sun1, Yingao Zhang1, Jinfeng Li1, Huihan Guo1 (1 South China University of Technology)	1E03 Relating Oldroyd-A and Oldroyd-B in planar incompressible flows *Fabian Hillebrand1, Rebecca Hill2, Mahdi Davoodi3, Amy Shen1, Robert Poole2, Stylianos Varchanis4, (1 Okinawa Institute of Science and Technology, 2 School of Engineering, University of Liverpool, 3 Schlumberger Cambridge Research, 4 Center for Computational Biology, Flatiron Institute)
Chair		J. Esteban Lopez-Aguilar (Chemical Engineering Department, Faculty of Chemistry, National Autonomous University of Mexico)	Nobuo Watanabe (Shibaura Institute of Technology)	Fu Xu (Xiangtan University)	Weixiang Sun (South China University of Technology)	Prabhakar Ranganathan (Monash University)
11:00 - 11:20	1A04	Blurring the Lines: Rheology and Fluid Dynamics of Mixing Viscoplastic Fluids Amin Shakeri1, Abdallah Ghazal2, Simon Iremonger3, *Ida Karimfazli1 (1 Concordia University, 2 American University of Sharjah, 3 Sanjel Energy Services)	1B04 Rheo-optical and tribological study of hydrogel-based artificial erythrocytes for cardiovascular devices *Florian Rummel1, Gesine Hentschel2, Florian Pape2, Sabrina Küspert1, Birgit Glasmacher2, (1 NETZSCH-Gerätebau GmbH, 2 Leibniz University Hannover)	1C04 Mechanical properties of high-concentration hydrogels of kappa-carrageenan prepared using subcritical water *Jun-ichi Horinaka1, Koshiro Hara1, Kenji Urayama1 (1 Kyoto University)	1D04 Effective mechanical system analysis for identifying viscoelastic properties with fluid inertia *Xuesi Gao1, Wook Ryol Hwang1 (1 School of Mechanical and Aerospace Engineering, Gyeongsang National University, Jinju, 52828, Korea)	1E04 Numerical analysis of viscoelasticity under extensional flow based on phase field method Woohyeon Jo1, Youngdon Kwon2, *Jaewook Nam1 (1 Seoul National Univ., 2 Sungkyunkwan Univ.)
11:20 - 11:40	1A05	Predictions of the Generalized Newtonian Fluid model incorporating Flow Type (GNFFTy) in simple and complex flows *Robert Poole1 (1 University of Liverpool)	1B05 Next-Generation Hemorheological Assessment: A Microfluidic Device for RBC Deformability Profiling *Soyoung Jeon1, Jihee You1, Chae A Park1, Sehyun Shin1 (1 Korea University)	1C05 Cancel	1D05 Correlations between particle size distribution and rheology of cathode slurries in LIB with process conditions *Hyun Dong You1, Hye Jin Ahn1, Wook Ryol Hwang1 (1 School of Mechanical and Aerospace Engineering, Gyeongsang National University)	1E05 Heterogeneous Cluster Formation in Ester/Hydroxy-Terminated cis-1,4-Polyisoprene in Natural Rubber *Mayank Dixit1, Takashi Taniguchi1 (1 Kyoto University)
11:40 - 12:00	1A06	Sequential Displacement of Non-Newtonian Fluids in Irregular Annular Geometries *Matheus Xavier1, Vanessa Picoli1, Priscilla Varges1, Mônica Naccache1, Carlos Carvalho2, (1 PUC-Rio, 2 Cenpes/Petrobras)	1B06 Suspension-enhanced transport and reaction in cellular blood flow: Implications for thrombosis and hemostasis *Zixiang Leonardo Liu1,2 (1 Florida State University, 2 Florida A&M University)	1C06 Compression-induced 2D Assembly of Hydrophobized Cellulose Nanofibrils on the Water Surface *Koichiro Ishida1, Yoshinobu Tsujii1 (1 Institute for Chemical Research, Kyoto Univ.)	1D06 Advanced extensional rheometry on a rotational rheometer platform *Joerg Laeuger1, Jan Haeberle1, Jose Rodriguez Agudo1 (1 Anton Paar Germany)	1E06 Multiscale Simulation of polymer melt spinning process using a CGMD model and Machine Learning Yan Xu1, Souta Miyamoto1, *Takashi Taniguchi1 (1 Kyoto University)
12:00 - 13:10		Lunch				
13:10 - 14:10		**Plenary 2** **Normal Stresses in viscoelastic fluids** ***Dimitris Vlassopoulos[1], Benke Li[2], Thanasis Athanasiou[2], Antonios Mavromanolakis[2] (1. University of Crete and FORTH (Greece), 2. FORTH (Greece))** **Chair: Yuichi Masubuchi (Nagoya University)**				
14:10 - 14:25		Break				
		G2. Non-Newtonian Fluid Mechanics & Microfluidics	G10. Bio-Related Materials & Bio/Medical-Rheology	G14. General Rheology	G8. Living and Active Systems	G7. Computational Rheology
Chair		Robert Poole (University of Liverpool)	Toru Maruyama (Haradoi Hospital)	Shigeru Okamoto (Nagoya Institute of Technology)	Sunil Kumar P B (Indian Institute of Technology Madras)	Takashi Uneyama (Nagoya University)
14:25 - 14:45	1A07	Buoyancy effects on exchange flow between non-Newtonian and Newtonian fluids in an inclined pipe *Soheil Akbari1, Ian A. Frigaard1 (1 Department of Mathematics, University of British Columbia, Vancouver, Canada)	1B07 Altered mechanobiology of blood due to supraphysiological shear stress exposure *Michael Simmonds1 (1 Biorheology Research Laboratory, Griffith University, Gold Coast)	1C07 Rheological of Ecofriendly Abrasive Flow Finishing Medium for Polymeric and Metallic Implants and Fixation Devices *Vimal Katiyar1 (1 Indian Institute of Technology Guwahati)	1D07 Broadband Rheology of Single Chromosomes Reveals New Insights into the Mitotic Chromosome Periphery Tania Mendonca2, *Manlio Tassieri1, Amanda Wright2, Daniel Booth2 (1 The University of Glasgow, 2 University of Nottingham)	1E07 Scale-bridging dynamics of associative polymers on colloids by interpretable active learning metamodelling *Ellie Hajizadeh1, Jalal Abdolahi1, Dominic Robe1 (1 The University of Melbourne)
14:45 - 15:05	1A08	Network modeling of yield stress fluids in porous media Hossein Rahmani1, *Ian Frigaard2 (1 Department of Mathematics, The University of British Columbia, 2 Departments of Mathematics and Mechanical Engineering, The University of British Columbia)				
15:05 - 15:25	1A09	The Spontaneous Imbibition of Oldroyd-B Viscoelasticity Fluid in A Single Capillary Tube *Shengda Sun1, Senlin Zhu1, Qingfei Fu1,2, Lijun Yang1,2, Chiyu Xie1,2, (1 School of Astronautic, Beihang University, 2 Beihang Ningbo Innovation Research Institute)	1B09 Time-Resolved Rheometry for Enhanced Rheological Modelling of Temperature Sensitive Biopolymers Hadis Torabi1, Hadis Zarrin1, *Ehsan Behzadfar1 (1 Toronto Metropolitan University)	1C09 Shear Thinning in Glassy Materials *Mikihito Takenaka1 (1 Kyoto University)	1D09 Rheology and particle motion in electrically driven active colloidal dispersions *Yasuyuki Kimura1, Keita Saito1,2, Taichi Kono1, Fumiaki Kobayashi1, Tomoyuki Nagaya3, (1 Department of Physics, Kyushu University, 2 RIKEN Center for Emergent Matter Science, 3 Division of Natural Sciences, Oita University)	1E09 A Physics-Informed Neural Network Approach to Pulsatile Shear-Thinning Flow Dynamics *Junwon Son1, Nayeon Park1, Jaewook Nam1 (1 Seoul National University)
Chair		Ida Karimfazli (Concordia University)	Nobuo Watanabe (Shibaura Institute of Technology)	Mikihito Takenaka (Kyoto University)	Takashi Taniguchi (Kyoto University)	Takashi Uneyama (Nagoya University)
15:25 - 15:45	1A10	Elongational viscosity and micellar structures of surfactant solutions via coarse-grained molecular simulations *Yusuke Koide1, Takato Ishida1, Takashi Uneyama1, Yuichi Masubuchi1 (1 Nagoya University)	1B10 Effects of the stenosis on flow field in an intravascular shunt vessel model *Shuya Shida1, Yutaka Suzuki1, Toshinari Akimoto1, Yoshihiro Kubota2 (1 Faculty of Life sciences, Toyo University, 2 Faculty of Science and Engineering, Toyo University)	1C10 Structural Formation of Gyroid from Lamella or Another Gyroid on the Temperature Drop *Shigeru Okamoto1, Koudai Suzuki1, Kohei Nakamura1 (1 Nagoya Institute of Technology)	1D10 Cancel	1E10 Discovering Constitutive Equations from Nonlinear Rheological Data Using a Sparse Identification Technique *Takeshi Sato1, Souta Miyamoto2, Shota Kato2 (1 Kanazawa Univ., 2 Kyoto Univ.)
15:45 - 16:05	1A11	The dynamical behaviors of lubricant molecules under a reciprocating motion *Dongjie Liu1, Zilu Liu1, Jingyi Wang1, Fei Chen1, Jinjia Wei1, (1 Xi'an Jiaotong University)	1B11 Cancel	1C11 Nonlinear Relaxation of Unentangled Associative Polymers:Strain-Induced Hardening and Softening *Yuxuan Pei1,2, Quan Chen1,2, Yumi Matsumiya3, Hiroshi Watanabe3 (1 Changchun Institute of Applied Chemistry Chinese Academy of Sciences, 2 University of Science and Technology of China, 3 Institute for Chemical Research, Kyoto University)	1D11 Dynamics of an active chiral polymer in shear flow Ayten Bayram2, *Luca Biancofiore1, Hartmut Löwen3 (1 University of L'Aquila, 2 Bilkent University, 3 Heinrich-Heine-Universität Düsseldorf)	1E11 Inferring Stokes flows using Physics-Informed Machine Learning *Daiki Fujita1, John Molina1, Takashi Taniguchi1 (1 Kyoto University, Department of Chemical Engineering, Soft Matter Engineering Lab.)
16:05 - 16:25	1A12	Aggregate formation of contravariant and covariant polymers in viscoelastic turbulent flow *Kiyosi Horiuti1, Carlos Da Silva1 (1 Instituto Superior Tecnico, Universidade de Lisboa)	1B12 Cancel	1C12 Mechanism of Nonlinear Energy Dissipation in StS Triblock Elastomer Containing Associative Network *Hongbing Chen1,2, Quan Chen1,2, Hiroshi Watanabe3 (1 Changchun Institute of Applied Chemistry, Chinese Academy of Science, 2 University of Science and Technology of China, 3 Kyoto University)	1D12 Nontrivial scaling of tumbling time with shear rate of a string of pushers. *Sunil Kumar P B1, Siji Saju2, Raj Manna3 (1 Indian Institute of Technology Madras, 2 Indian Institute of Technology Palakkad, 3 Indian Institute of Technology Kharagpur)	1E12 Inferring Polymer Molecular Weight Distribution from Rheological Data Yoshiki Ueno1, *John Molina1, Takashi Taniguchi1 (1 Kyoto University)
16:25 - 16:30		Break				
16:30 - 18:00		**Poster Session: 1P01 - 1P48** **(Room 401 & 402)**				

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July 22 (Tue), 2025

	Room A (Main Hall)	Room B (301)	Room C (501)	Room D (502)	Room E (504&505)
8:30 - 9:30	**Plenary 3** **Multiscale Modeling of Sheared Lamellar Mesophases: The Structure-Rheology Relationship** ***Viswanathan Kumaran (Indian Institute of Science (India))** **Chair: Yogesh Joshi (Indian Institute of Technology Kanpur)**				
9:30 - 9:50	Break				
	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G11. Food Rheology	G3. Supramolecules & Self-Assembling Systems	G6. Suspensions, Colloids & Granular Systems	G7. Computational Rheology
Chair	Ruri Hidema (Nagoya University)	Hiroko Yano (Yamagata University)	Ping Tang (Fudan University)	Soichiro Makino (Toyota Central R & D Labs., Inc.)	Ahmad Jabbarzadeh (The University of Sydney)
9:50 - 10:10	2A01 Effect of polymer flexibility, concentration and polydispersity on the capillary-driven thinning of fluids *Vincenzo Calabrese1,2, Silvia Nardone1, Amy Q Shen1, Simon J Haward1（1. Okinawa Institute of Science and Technology (OIST) (Japan), 2. POLYMAT, University of the Basque Country UPV/EHU (Spain)）	2B01 Structure, Gelation, and Foam-Stabilising Potential of Mung Bean Proteins *Chaiwut Gamonpilas1, Janjira Buakaew1, Pawadee Methacanon1, Ployfon Boonkor2, Leonard Sagis2, (1 National Metal and Materials Technology Center, NSTDA, 2 Wageningen University and Research)	2C01 Phase behavior and dynamics in mixture of 5CB and dimethyl terephthalate *Hiroshi Watanabe1, Ryoko Shimada3, Osamu Urakawa2, Tadashi Inoue2 (1 Kyoto University, 2 Osaka University, 3 Japan Women's University)	2D01 Three-Dimensional Direct Imaging of Colloidal Particle/Crystal Suspensions and Micro-Rheological Insights. *Bo Yao1,2, Shoukang Yang1, Guangyu Sun1, Fei Yang1, Langyu Yang1, (1 China University of Petroleum (East China), 2 University of Alberta)	2E01 Aggregation States and Physical Properties of Epoxy Resins Cured under Off-stoichiometric Conditions *Satoru Yamamoto1, Atsuomi Shundo2, Keiji Tanaka1,2 (1 Ctr. Polym. Interface & Adhes. Sci., Kyushu Univ., 2 Dept. Appl. Chem., Kyushu Univ.)
10:10 - 10:30		2B02 Modeling and simulation of dairy processing: Towards the theoretical design of food texture *Erika Nozawa1, Tetsuo Deguchi2, Tatsuhiro Takahashi1 (1 Yamagata Univ., 2 Ochanomizu Univ.)			2E02 Unraveling the topological glass behavior in ring polymer melts: Role of chain stiffness *Kang Kim1, Shota Goto1, Nobuyuki Matubayasi1 (1 Osaka University)
10:30 - 10:50	2A03 Wet Capillary Thinning (WCT) and Steady Immiscible State (SIS) in Thermodynamically Miscible Complex Fluids *Heon Sang Lee1 (1 Dong-A University)	2B03 Elucidating the interfacial properties of plant proteins for food emulsions *Li-Hsuan Lin1, Pascal Bertsch2, Jotam Bergfreund1, Peter Fischer1 (1 ETH Zurich, Institute of Food, Nutrition and Health, 2 University of Copenhagen, Department of Pharmacy)	2C03 Elastic Modulus and Cross-Link Point Fluctuations in Polymer Networks with Movable Cross-Links *Osamu Urakawa1, Seigo Hirai1, Yuta Kashino1, Tadashi Inoue1 (1 Osaka University)	2D03 Orthogonal Superposition Rheology on the complex fluids with Advanced Rotational Rheometer *Raj Jegadeesan1, C. Gracia Fernandez2 (1 TA Instruments-Waters LLC. , 2 TA Instruments-Waters Cromatografía)	2E03 Impact of L-Quebrachitol Impurity on End-Group Cluster Formation in Natural Rubber *Kosuke Morishita1, Mayank Dixit1, Takashi Taniguchi1 (1 Kyoto Univ.)
Chair	Ricardo Lopez de la Cruz (Okinawa Institute of Science and Technology Graduate University)	Erika Nozawa (Yamagata University)	Osamu Urakawa (Osaka University)	Anthony Stickland (The University of Melbourne)	Ahmad Jabbarzadeh (The University of Sydney)
10:50 - 11:10	2A04 Rheological characterization of synovial fluid flow and heat transfer during knee joint motion *Chunyan Liu1, Jingyun Shi1, Yu Bai1, Yan Zhang1 (1 Beijing University of Civil Engineering and Architecture)	2B04 Rheological Study of Corn Starch as a Function of Water Content *Priyanka Sharma1, Takeshi Sato1, Kentaro Taki1 (1 Kanazawa University)	2C04 Rheological properties of PNIPAM based hydrogels Yinghao Xu1, Marie-Claude Heuzey1, *Abdellah Ajji1 (1 Polytechnique Montreal)	2D04 Estimation of Fiber-Fiber Interactions in Cellulose Fiber Networks via Cross-Linking Points and Yield Stress *Daisuke Tatsumi1, Yudai Yamaguchi1 (1 Kyushu Univ.)	2E04 Phantom chain simulations for the rupture of polymer networks *Yuichi Masubuchi1 (1 Nagoya University)
11:10 - 11:30	2A05 Large Amplitude Oscillatory Extension (LAOE) of complex fluids Steffen Recktenwald1, Thomas John2, Robert Poole3, Claudio Fonte2, Amy Shen1, *Simon Haward1, (1 Okinawa Institute of Science and Technology, 2 University of Manchester, 3 University of Liverpool)	2B05 Microscopic fractures of whipped cream under oscillatory shear *Shuji Fujii1 (1 Toyo University)	2C05 Rheological and mechanical properties of associative polymers based on metal-coordinated bonds *Yahui Liu1, Qian Huang1, Shuang Liu1 (1 Sichuan univ.)	2D05 Irreversible Aging and Thixotropy of Colloidal Silica (Ludox) Dispersion Vivek Kumar1, *Yogesh Joshi1 (1 Department of Chemical Engineering, Indian Institute of Technology Kanpur)	2E05 Coarse-Grained Elongation Simulations for Crystalline Polymer Solid: Strain Rate Dependence *Takashi Uneyama1 (1 Nagoya University)
11:30 - 11:50	2A06 Understanding of confined chemical garden patterns selection via rheology of the interfacial precipitated phase Fumiya Kobayashi1, Ryuta Suzuki1, Taro Maeda1, Rui Kimura1, Masayoshi Takano2, *Yuichiro Nagatsu1, (1 Tokyo University of Agriculture and Technology, 2 TA Instruments Japan Inc.,)		2C06 Rheology and Microstructure of Particle Loaded Worm-Like Micellar Solutions: Impact of Particle Charge and Shape Meghana Mekala1, Jan Vermant2, Abhijit Deshpande1, *Madivala Basavaraj1 (1 Polymer Engineering and Colloid Science (PECS) Laboratory, Department of Chemical Engineering, Indian Institute of Technology Madras, 2 Department of Materials, ETH Zurich, 8093 Zurich)	2D06 Role of Elasticity and Inertia in Particle Migration: Theoretical and Experimental Study in Complex Taylor Vortices *Mahdi Davoodi1, Clarke Andrew1 (1 Schlumberger Cambridge Research)	
11:50 - 13:10	Lunch				
13:10 - 14:10	**Plenary 4** **Microstructure-based Constitutive Modeling of Unentangled Polymer Solutions** ***Prabhakar Ranganathan (Monash University (Australia))** **Chair: Ravi Jagadeeshan (Monash University)**				
14:10 - 14:25	Break				
	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G11. Food Rheology	G5. Polymer Solutions, Melts & Blends	G6. Suspensions, Colloids & Granular Systems	G9. Interface, Droplet, Emulsions & Foams
Chair	Viswanathan Shankar (IIT Kanpur)	Shuji Fujii (Toyo University)	Chen-Yang Liu (Institute of Chemistry, The Chinese Academy of Sciences)	Daisuke Tatsumi (Kyushu Univ.)	Ahmad Jabbarzadeh (The University of Sydney)
14:25 - 14:45	2A07 Canopy Elastic Turbulence: Effects of canopy height and shear thinning *Ricardo Lopez De La Cruz1, Simon Haward1, Amy Shen1 (1 Okinawa Institute of Science and Technology Graduate University)	2B07 Elucidating the LAOS behaviors of microgel stabilized HIPEs using the SPP approach and comparison with mayonnaise *Nan Yang1,2,3, Songmei Kong1 (1 Hubei University of Technology, 2 Glyn O. Phillips Hydrocolloid Research Centre, 3 Food Hydrocolloid International Science and Technology Cooperation Base of Hubei Province)	2C07 Bead-Spring Model Analysis of Viscoelasticity for Unentangled Multi-Cyclic Polystyrene Melts *Yuya Doi1 (1 Yamagata University)	2D07 Kneading process potentially degrades the rheological properties of electrode slurries for lithium-ion batteries *Soichiro Makino1, Masahiko Ishii1, Yusuke Akimoto1, Megumi Sasaki1, Hiroshi Nakamura1, (1 Toyota Central R & D Labs., Inc.)	2E07 Mechanical Properties of Soft Microgel Assemblies at Interfaces *Walter Richtering1, Timon Kratzenberg1, Simon Schog1, Maximilian Schmidt1, Andrea Scotti1, (1 RWTH Aachen University)
14:45 - 15:05	2A08 Viscoelastic fluid-structure interactions in arrays of flexible cylinders *Arisa Yokokoji1, Simon Haward1, Amy Shen1 (1 Okinawa Institute of Science and Technology)	2B08 Effects of saliva on rheological properties of food biopolymer model boli *Katsuyoshi Nishinari1, Nan Yang1, Ke Zhang1, Zhiming Gao1 (1 G.O. Phillips Hydrocolloids Research Centre, Hubei University of Technology)			
15:05 - 15:25	2A09 Spontaneous bifurcation in microflows: How surface anchoring impacts rheology of anisotropic fluids *Anupam Sengupta1 (1 University of Luxembourg)	2B09 Retrogradation Behavior of Rice Gels Produced by Shear and Heat Milling Machine *Hiroko Yano1, Takuro Mikami1, Tomonori Koda1, Akihiro Nishioka1 (1 Grad. Sch. Org. Mater. Sci., Yamagata Univ.)	2C09 Molecular Simulation of Structures and Dynamics of Copolymers with Different Chain Sequences *Visit Vao-Soongnern1 (1 Suranaree University of Technology)	2D09 Optimization of the LFP Slurry Manufacturing Process: Analysis of Stirring Sequences and Equipment Effects *Minjin Lim1Chenrayan Senthil Wook Ryol Hwang1 (1 Gyeongsang National University)	2E09 Penetration Dynamics of Jets into Viscoplastic Gels: Experiments and Modeling Seyed Pedram Mousavi1, Hossein Hassanzadeh1, Faical Larachi1, Claus-Dieter Ohl2, *Seyed Mohammad Taghavi1, (1 Université Laval, 2 Otto-von-Guericke University)
Chair	Heon Sang Lee (Dong-A University)	Hiroko Yano (Yamagata University)	Yuya Doi (Yamagata University)	Yogesh Joshi (Indian Institute of Technology Kanpur)	Ahmad Jabbarzadeh (The University of Sydney)
15:25 - 15:45	2A10 Extension and scission of polymers in continuous abrupt contraction expansion microchannels *Ruri Hidema1, Guangzhou Yin2, Yuta Nakamura2, François Lequeux3, Hiroshi Suzuki2, (1 Nagoya University, 2 Kobe University, 3 ESPCI Paris)	2B10 Correlating Casein Micelle Structure with Viscosity in Skim Milk Concentrate *Cynthia Andriani1,3, Geoff Willmott1,3, Derek Knighton4, Catherine Whitby2,3, Bill Williams4, Davoud Zare (1 University of Auckland, 2 Massey University, 3 MacDiarmid Institute for Advanced Materials and Nanotechnology, 4 Fonterra Research & Development Center)	2C10 The shear rheology of dilute and semidilute unentangled wormlike micellar solutions Avishek Kumar1,2,4, Rico Tabor3, P Sunthar2, *Ravi Jagadeeshan4 (1 IITB-Monash Research Academy, Mumbai, 2 Dept. of Chemical Engineering, Indian Institute of Technology Bombay, Mumbai, 3 School of Chemistry, Monash University, Melbourne, 4 Department of Chemical and Biological Engineering, Monash University, Melbourne)	2D10 An Artificial Intelligent Approach for Deciphering the Rheological Behaviors of Electrode Slurries *Eun Hui Jeong1, Jin Woo Kim2, Sung Ryul Kim2, Jun Dong Park1 (1 Sookmyung Women's University, 2 Kumoh National Institute of Technology)	2E10 Viscoplastic Flow Manipulation by Asymmetric Groove Characteristics in Superhydrophobic Channels *Amir Joulaei1, Hossein Rahmani1, Seyed Mohammad Taghavi1 (1 Department of Chemical Engineering, Universite Laval)
15:45 - 16:05	2A11 Exploring the Effect of Fluid Viscoelasticity in Textured Parabolic Channels *Deniz Kaplan1, Humayun Ahmed1, Ilker Temizer1, Luca Biancofiore2 (1 Bilkent University, 2 University of L'Aquila)	2B11 Rheology of soft particle cereal-based suspensions: experiments and modelling Chirasmita Panigrahi1, *Madivala Basavaraj1, Abhijit Deshpande1 (1 Department of Chemical Engineering, Indian Institute of Technology Madras)	2C11 Dynamics of nanoconfined unentangled polymer melts via coarse-grained modeling *Ahmet Burak Yildirim1,2, Aykut Erbas1, Luca Biancofiore2 (1 Bilkent University, 2 Northwestern University, 3 University of L'Aquila)	2D11 Particle contact-induced shear thickening graphite/CMC aqueous suspensions *Hyunjoon Jung1, Cheolheon Hyun1, Jaewook Nam1 (1 Seoul National Univ.)	2E11 Buoyant miscible injection of a viscoplastic fluid into a closed-end pipe *Mohsen Faramarzi1, Soheil Akbari2, Seyed Mohammad Taghavi1 (1 Laval University, 2 The University of British Columbia)
16:05 - 16:25		2B12 Effect of water and oil on the microstructure and viscoelastic behaviour of wheat dough Fariduddin Md1, Chirasmita Panigrahi1, *Madivala Basavaraj1, Abhijit Deshpande1 (1 Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai, Tamil Nadu 600036)	2C12 Segmental and Chain Dynamics in Binary Blends of Unentangled Polymers *Sathish K. Sukumaran1, Masahito Nohara1, Jun-Ichi Takimoto1 (1 Yamagata University)	2D12 Interpretation of cathode slurry viscosity curves considering the effective shear rate acting between particles *Yoshiyuki Komoda1, Nagi Saito1, Naoto Ohmura1 (1 Kobe University)	2E12 Stability and rheology of telechelic polymer stabilized oil-in-water emulsions Roopesh P1, Abhijit Deshpande1, *Ethayaraja Mani1 (1 Indian Institute of Technology Madras)
16:25 - 16:30	Break				
16:30 - 18:00	**Poster Session: 2P01 - 2P49** **(Room 401 & 402)**				

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July 23 (Wed), 2025

	Room A (Main Hall)	Room B (301)	Room C (501)	Room D (502)	Room E (504&505)
8:30 - 9:30	**Plenary 5** **Rheological Behavior of Waxy Crude Oils and its Application in Pipeline Transportation** ***Jinjun Zhang, Hongying Li, Yiwei Xie (China University of Petroleum- Beijing (China))** **Chair: Xue-Feng Yuan (Guangzhou University)**				
9:30 - 9:50	Break				
	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G12. Gels and Rubbers	G5. Polymer Solutions, Melts & Blends	G6. Suspensions, Colloids & Granular Systems	G9. Interface, Droplet, Emulsions & Foams
Chair	Simon Haward (Okinawa Institute of Science and Technology)	Takuya Katashima (The University of Tokyo)	Ehsan Behzadfar (Toronto Metropolitan University)	Yoshiyuki Komoda (Kobe University)	Mohsen Faramarzi (Laval University)
9:50 - 10:10	3A01 Influence of shear damage on bubble pathways in yield stress fluids Ian Frigaard1, Martyna Goral1, Omid Hajieghrary1 (1 University of British Columbia)	3B01 Unraveling Non-Uniform Fields of Stress, Strain, and Crystallinity Near a Crack Tip in Natural Rubber *Thanh-Tam Mai1, Shinichi Sakurai2, Katsuhiko Tsunoda3, Kenji Urayama1 (1 Kyoto University, 2 Kyoto Institute of Technology, 3 Bridgestone Corporation)	3C01 Pathways toward Enhancement of Transient Elongational Hardening of Polymer Melts *Quan Chen1, Shilong Wu1, Huanhuan Yang1 (1 Changchun Institute of Applied Chemistry, CAS)	3D01 Electrorheological responses and electrorheological effects of waxy oils *Yiwei Xie1, Jiabao Kang1, Yichen Wei1, Hongying Li1, Jinjun Zhang1, (1 China university of petroleum (Beijing))	3E01 Measurement of rheological properties of soft surfaces by a micro-needle contact method *Tadashi Kajiya1, Koji Miyata1, Daisuke Sawai1, Yosuke Miyashita1, Hiroyuki Noda1, (1 Analysis Technology Center, Fujifilm)
10:10 - 10:30	3A02 Evaluation of force balance at surface of a rising bubble in aqueous gelatin solution. *Kohei Nameta1, Runa Hattori1, Ryo Nagumo1, Shuichi Iwata1, Tsutomu Takahashi2, (1 Nagoya Institute of Technology, 2 Nagaoka University of Technology)		3C02 Shear and elongational rheology of pom-pom systems: Effective entanglements as the deciding quantity *Max Schußmann1, Hyeong Yong Song1, Kyu Hyun2, Manfred Wilhelm1, Valerian Hirschberg1,3, (1 Karlsruhe Institute for Technology, 2 Pusan National University, 3 Technical University Clausthal)	3D02 Impact of graphite and graphene nanoparticles on the electrorheological effect of waxy oil *Jiabao Kang1, Qibing Li1, Yiwei Xie1, Hongying Li1, Jinjun Zhang1, (1 China University of Petroleum-Beijing)	
10:30 - 10:50	3A03 Effect of Ultrasound Conditions on the Dynamics of Encapsulated Microbubbles Using the Boundary Element Method *Haruki Furukawa1, Shuichi Iwata1, Timothy Fillips2, Steven Lind3, Michael Walters2, (1 Dept. of Life Science and Applied Chemistry, NITech, 2 School of Math., Cardiff Univ., 3 School of Eng., Cardiff Univ.)	3B03 The Law on Rubber Tackiness *Xiaorong Wang1 (1 Tongji University)	3C03 Rheology of Entangled Linear PS Chains Mixed with Unentangled Linear, Star, or Crosslinked PS Chains *Teng Cui1, Shuang Liu1, Qian Huang1 (1 Sichuan Univ.)	3D03 Magnetorheological Effects of Waxy Crude Oil and Its Mechanism *Yang Su1, Yiwei Xie1, Jiabao Kang1, Hongying Li1, Jinjun Zhang1, (1 China University of Petroleum-Beijing)	3E03 Scraping behaviors of a foam on a substrate *Rei Kurita1, Masaya Endo1 (1 Tokyo Metropolitan Univ.)
Chair	Yusuke Koide (Nagoya University)	Thanh-Tam Mai (Kyoto University)	Visit Vao-soongnern (Suranaree University of Technology)	Wook Ryol Hwang (Gyeongsang National University)	Mohsen Faramarzi (Laval University)
10:50 - 11:10	3A04 Two-Phase Generalized Newtonian Fluid Flow in Microfluidic-Based Hydrodynamic Filtration for Particle Sorting *Myung-Suk Chun1,2, Kyu Yoon1 (1 Advanced Materials & Systems Research Division, Korea Institute of Science and Technology (KIST), 2 Biomedical Engineering Division, KIST School, UST)	3B04 Structure and properties of poly(styrene-b-ethylene-butylene-b-styrene)/poly(phenylene oxide) blend Aya Fujimoto1, Ayumi Hamada1, Kakeru Obayashi1, *Ken Kojio1 (1 Kyushu University)	3C04 Universality and nonuniversality in nonlinear shear rheology of entangled polystyrene solutions *Shuang Liu1, Manfred H. Wagner2, Teng Cui1, Qian Huang1 (1 Polymer Research Institute, State Key Laboratory of Polymer Materials Engineering, Sichuan University, 2 Polymer Engineering/Polymer Physics, Berlin Institute of Technology)	3D04 Understanding physical origin of the Bausinchger effect with Soft Glassy Rheology model Eun Hui Jeong1, *Jun Dong Park1 (1 Sookmyung Women's University)	3E04 Rheologial Study on the Influence of Complex Crude Oil Components on Hydrate Formation in Water-in-Oil Emulsions *Guangyu Sun1, Jie Zhang1, Bo Yao1 (1 China University of Petroleum (East China))
11:10 - 11:30	3A05 Flow-Induced Orientation of Cellulose Nanofiber Suspensions in an Abrupt Contraction Flow *Akiyoshi Kusano1, Taisuke Sato2, Takatsune Narumi3, Akiomi Ushida3 (1 Graduate School of Niigata University, 2 Photonic Lattice, Inc., 3 Niigata University)	3B05 Nonlinear Dynamic Viscoelasticity and Hysteresis Heating of Filled Rubbers under Cyclic Deformation *Wenbo Luo1, Xiaoling Hu2, Boyuan Yin3 (1 Changsha University, 2 Xiangtan University, 3 Hunan University of Science and Technology)	3C05 The linear and nonlinear rheological properties of PHA/LCB-PLA blends *Min Chan Kim1, Kyu Hyun1 (1 Pusan National University)	3D05 The Compressional Rheology of Pellet Flocculated Kaolin *Anthony Stickland1, Yuxuan Luo1, Peter Scales1 (1 ARC Centre of Excellence for Enabling Eco-Efficient Beneficiation of Minerals, Department of Chemical Engineering, The University of Melbourne)	3E05 Inverse Leidenfrost impacting drops *Kindness Isukwem1,3, Carole-Ann Charles2, Laurence Ramos2, Christian Ligoure2, Anselmo Pereira1, (1 Mines Paris-PSL, 2 Université de Montpellier, 3 University of British Columbia)
11:30 - 11:50	3A06 Formation and regulation of polymeric droplets with complex rheology in capillary microchannels Lian Duan1, *Wenjun Yuan1, Fei Chen1, Jinjia Wei1 (1 Xi'an Jiaotong University)	3B06 Rheological study of transient networks with controlled network structures *Takuya Katashima1 (1 The University of Tokyo)	3C06 Combining Rule for intermolecular Hydrogen-bonding Interactions *Chen-Yang Liu1 (1 Institute of Chemistry, The Chinese Academy of Sciences)	3D06 Particle dynamics and microstructural analysis in drying colloidal films driven by evaporation and sedimentation Jinseong Yun1, Byoungjin Chun1, *Hyun Wook Jung1 (1 Korea University)	3E06 Evaporation-driven interfacial shape transition in polymer solutions towards a universal principle *Reina Hagiwara1, Kosuke Okeyoshi1 (1 JAIST)
11:50 - 13:00	Lunch				
13:00 - 18:00	**Excursion**				
18:00 - 21:00	**Banquet** **Kobe Portpia Hotel**				

The 9th Asia-Pacific Rim Conference on Rheology (A-PRCR2025)
July 20 - 25, 2025, Kobe, Japan

July 24 (Thu), 2025

	Room A (Main Hall)	Room B (301)	Room C (501)	Room D (502)	Room E (504&505)
8:30 - 9:30	**Plenary 6** **Scale-Dependent Rheology of Complex Fluids for Energy and Biomedical Solutions** ***Milana Trifkovic (University of Calgary (Canada))**				
9:30 - 9:50	Break				
	G12. Gels and Rubbers	G4. Solids, Surface, Composite & Multiphase Systems	G5. Polymer Solutions, Melts & Blends	G1. Materials Processing	G9. Interface, Droplet, Emulsions & Foams
Chair	Kenji Urayama (Kyoto University)	Hyungsu Kim (Dankook University)	Ravi Jagadeeshan (Monash University)	Masayuki Yamaguchi (Japan Advanced Institute of Science and Technology)	Amir Joulaei (Universite Laval)
9:50 - 10:10	4A01 Rheology of mechanically interlocked polymer networks *Wei Yu1, Lin Cheng1, Wei You1 (1 Shanghai Jiao Tong University)	4B01 Image analysis of deformation in polymeric solids by using aggregation-induced emission probe *Yusuke Hiejima1, Yusuke Momonoi1, Haruka Sasaki1, Asae Ito1, Koh-Hei Nitta1, (1 Kanazawa University)	4C01 Linear and nonlinear modifications of the Rouse chain model depicting supplementary effects *Youngdon Kwon1 (1 Sungkyunkwan University)	4D01 3D Printing of Electrofluids for Soft Electronic Component Manufacturing *Niclas Hautz1, Lola González-García1,2 (1 INM-Leibniz Institute for New Materials, Saarland University, 2 Saarland University, Department of Materials Science and Engineering)	4E01 Effect of Molecular Branching on Rheology and Interfacial Properties of Liquid Alkanes: Bulk and Nanodroplets *Ahmad Jabbarzadeh1 (1 The University of Sydney)
10:10 - 10:30				4D02 Development of Continuous Dry Process for Secondary Batteries: Twin-Screw Extruder *Hyeonwoo Choi1, Hyeseong Oh2, Kyeong-Min Jeong2, Wook Ryol Hwang1 (1 Gyeongsang National University, 2 Ulsan National Institute of Science and Technology)	4E02 Investigation on the droplet behavior regular in the power-law shear-thinning swirl flow fields Meng Yang1, *Shuo Liu1, Jingyu Xu1 (1 Institute of Mechanics, Chinese Academy of Sciences)
10:30 - 10:50	4A03 Structure and Applications of Associative Exchange Dynamic Polymer Networks *Lin Cheng1, Xinyang Zhao1, Wei Yu1 (1 Shanghai Jiao Tong University)	4B03 Relationship between viscoelastic properties and brittleness of general glassy polymer materials *Asae Ito1, Akira Taniguchi1, Yusuke Hiejima1, Koh-Hei Nitta1 (1 Kanazawa university)	4C03 Comparison of linear and ring polymers in turbulent flows *Aditya Ganesh1, Prabhakar Ranganathan2, Jason Picardo3 (1 IITB-Monash Research Academy, 2 Monash University, 3 Indian Institute of Technology Bombay)	4D03 Study on the viscous dissipation effect of high viscosity polymers flowing in pipes *Hong He1, Yu Xing1 (1 College of Mechanical and Electrical Engineering, Beijing University of Chemical Technology)	4E03 Decode Consumer Perception of Cosmetic Lotion: Method to Characterize Thixotropy & Derive Thixotropic Times Scales *Lihui Ye1, Danning Zeng1, Yuekui Sun1 (1 Estée Lauder Companies)
Chair	Lester Geonzon (The Institute for Solid State Physics, The University of Tokyo)	Yusuke Hiejima (Kanazawa University)	Quan Chen (Changchun Institute of Applied Chemistry, CAS)	Masayuki Yamaguchi (Japan Advanced Institute of Science and Technology)	
10:50 - 11:10	4A04 Structural Modification of Multifunctional Polylactide-based Aerogels *Anthony Tuccitto1, Zeineb Ben Rejeb1, Rafaela Aguiar1, Nello Sansone1, Patrick Lee1, (1 Department of Mechanical and Industrial Engineering, University of Toronto)	4B04 Orientation behavior and glassy structual change of acrylic stretched film during ductile deformation *Shogo Nobukawa1, Seiya Mori1, Katsuhiro Inomata1 (1 Nagoya Institute of Technology)	4C04 Measure the unmeasurable: A homemade DoS rheometer to characterize elongation of dilute polymer solutions *Yujun Feng1, Hao Chen1, Yan Zhang1 (1 Sichuan University)	4D04 Theory and Experimental Analysis of Twin-Screw Process Conditions *Min Jong Seong1, Xuesi Gao1, Hyun Woo Choi1, Min Jin Lim1, Wook Ryol Hwang1, (1 School of Mechanical Engineering, Gyeongsang National University)	
11:10 - 11:30	4A05 The transient response of the swelling observed with polymer elution for the freeze/thawed polyacrylonitrile gel *Yutaka Tanaka1, Hiroki Asada1, Yoshito Shimizu1, Yuta Nagami1 (1 University of Fukui)	4B05 Influence of filler network transition on crack propagation in PMMA-SiO₂ model nanocomposites *Jian Zhang1, Wei You1, Yiming Wang1, Wei Yu1 (1 Shanghai Jiao Tong University)	4C05 Extreme of disentanglement and triggered reentanglement in soft-nanoparticles *Gengxin Liu1 (1 Donghua University)	4D05 Coarse-Grained Molecular Dynamics Simulations of Polymer Degradation Under Shear Flow *Takato Ishida1, Yusuke Koide1, Takashi Uneyama1, Yuichi Masubuchi1 (1 Nagoya university)	
11:30 - 11:50	4A06 Visualizing the Evolution of Heterogeneous Crystallization Under Non-Uniform Strain Fields in Natural Rubber *Kenji Urayama1, Daichi Nozaki1, Tam Mai1, Katsuhiko Tsunoda2 (1 Kyoto University, 2 Bridgestone Corporation)	4B06 The molecular chain structure of segmented polyurethane elastomer under uniaxial and biaxial deformation *Kakeru Obayashi1, Ken Kojio1 (1 Kyushu Univ.)	4C06 Evaluating the performance of processing aids in eliminating melt fracture *Xiaohan Jia1, Zeinab Mousavi 1, Antonios Doufas2, Sawas Hatzikiriakos1 (1 University of British Columbia, 2 Sabic Corporate Technology Center at King Abdullah University of Science & Technology)	4D06 Geometry modification of a Dulmage-type screw in single-screw extrusion for improved melt-mixing *Yasuya Nakayama1, Koichi Kimura2, Toshihisa Kajiwara1 (1 Kyushu University, 2 Japan Steel Works Ltd.)	
11:50 - 13:10	Lunch				
13:10 - 14:10	**Plenary 7** **Tetra Gels for Understanding Fundamentals of Gels** ***Takamasa Sakai (Graduate School of Engineering, University of Tokyo (Japan))** **Chair: Kenji Urayama (Kyoto University)**				
14:10 - 14:25	Break				
	G12. Gels and Rubbers	G4. Solids, Surface, Composite & Multiphase Systems	G5. Polymer Solutions, Melts & Blends	G1. Materials Processing	
Chair	Yusuke Yasuda (ORDIST, Kansai University)	Shogo Nobukawa (Nagoya Institute of Technology)	Sathish K. Sukumaran (Yamagata University)	Takumitsu Kida (The University of Shiga Prefecture)	
14:25 - 14:45	4A07 Spontaneous and Stimulated Chemical and Mechanical Oscillations in Polymer Hydrogels *Zuowei Wang1, Tunde Geher-Herczegh2, Tsukuru Masuda3, Ryo Yoshida3, Nandini Vasudevan2, Yoshikatsu Hayashi2, (1 Department of Mathematics and Statistics, School of Mathematical, Physical and Computational Sciences, University of Reading, 2 Department of Biomedical Sciences and Biomedical Engineering, School of Biological Sciences, University of Reading, 3 Department of Bioengineering, School of Engineering, The University of Tokyo)	4B07 Effect of Number of Intramolecular Functional Groups on Epoxy Curing Reactions *Atsuomi Shundo1, Atsushi Tokunaga1, Riichi Kuwahara2, Satoru Yamamoto3, Keiji Tanaka1,3, (1 Department of Applied Chemistry, Kyushu University, 2 Dassault Systemes K. K., 3 Center for Polymer Interface and Molecular Adhesion Science, Kyushu University)	4C07 Rheological Approach to Estimate Molecular Weight of Kuhn Monomers in Semiflexible Wormlike Micelles *Hiroki Degaki1, Tsuyoshi Koga1, Tetsuharu Narita2 (1 Kyoto University, 2 ESPCI Paris)	4D07 Introduction of reversible bond for styrene butadiene rubber through click reaction and its mechanical properties *Toshio Tada1, Lan Jian1, Daisuke Manai1, Satoshi Kawasaki1, Takahiro Mabuchi1, Toshikazu Takata2,3, (1 Sumitomo Rubber Industries, Ltd., 2 Graduate School of Advanced Science and Engineering, Hiroshima University, 3 Department of Chemistry, Graduate School of Science, Osaka Metropolitan University)
14:45 - 15:05		4B08 Durable bonding technology based on co-continuous network structures *Shunto Arai1 (1 National Institute for Materials Science (NIMS))	4C08 Multiple relaxations and entanglement behaviors of polymerized ionic liquids with various cations/anions *Gang Liu1,2, Quan Chen1 (1 Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, 2 College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering of China, Sichuan University)		
15:05 - 15:25	4A09 Structure-Mechanical Properties Relationship of Well-Defined Crosslinked Polyisoprene Network *Jian Tang1, Bo Liu1, Quan Chen1 (1 Changchun Institute of Applied Chemistry, Chinese Academy of Sciences)	4B09 Characteristics of polycarbonate modified by alkaline aqueous solutions during melt processing *Youngsoo Choi1, Hyungsu Kim1 (1 Department of Chemical Engineering, Dankook Univ.)	4C09 Break	4D09 Effect of Carbon Black on Oil Migration in SBR vulcanizate *Jun Sawada1, Satoshi Kawasaki1, Toshio Tada1, Masayuki Yamaguchi2 (1 SUMITOMO RUBBER INDUSTRIES, LTD., 2 Japan Advanced Institute of Science and Technology)	
Chair	Jian Tang (Changchun Institute of Applied Chemistry Chinese Academy of Sciences)	Asae Ito (Kanazawa university)	Youngdon Kwon (Sungkyunkwan University)	Toshio Tada (Sumitomo Rubber Industries, Ltd.)	
15:25 - 15:45	4A10 Tough and stiff bio-based hydrogels reinforced by strain-induced hierarchically crystalline-like structure *Lester Geonzon1, Shingo Matsukawa2, Koichi Mayumi1 (1 The Institute for Solid State Physics, The Univ. of Tokyo, 2 Dept. of Food Sci. and Tech., Tokyo Univ. of Marine Sci. and Tech.)	4B10 In-situ neutron reflectometry for lamellar structures under shear at solid surfaces *Fumiya Nemoto1, Fumi Takabatake2, Norifumi Yamada2, Shin-Ichi Takata3, Hideki Seto2, (1 National Defense Academy of Japan, 2 Institute of Materials Structure Science, High Energy Accelerator Research Organization, 3 J-PARC Center, Japan Atomic Energy Agency)	4C10 Static and dynamical properties of ultra-polydisperse linear polymer solutions *Naoya Yanagisawa1, Daisuke Shimamoto1, Takeshi Kawasaki2, Miho Yanagisawa1 (1 Graduate School of Arts and Sciences, the University of Tokyo, 2 Department of Physics, Nagoya University)	4D10 Flow-Induced Crysatllization Behavior of Semi-Crystalline Polyolefins Evaluated by Rheo-Raman Spectroscopy *Takumitsu Kida1, Naoki Uenishi1, Khunanya Janchai2, Hiroki Takeshita1, Masayuki Yamaguchi2, Katsuhisa Tokumitsu1, (1 The University of Shiga Prefecture, 2 Japan Advanced Institute of Science and Technology)
15:45 - 16:05	4A11 Mechanics of plant mucilage polysaccharides: relevance to plant physiology and adaptations *Susy Varughese1, Krithika Bhaskaran1, Moumita Sasmal1, Saveri Puchalappalli1, Abhijit Deshpande1, (1 Indian Institute of Technology, Madras)	4B11 Interfacial Fluidity of Polystyrene Chains on Si Substrate *Shintaro Saeki1, Tatsuki Abe2, Yuma Morimitsu1, Keiji Tanaka1,2 (1 Kyushu Univ., 2 Center for Polymer Interface and Molecular Adhesion Science, Kyushu Univ.)	4C11 The effect of dynamic rheological property on the haze of polyethylene composite tubular blown film *Xuefei Jia1 (1 SINOPEC (Beijing) Research Institute of Chemical Industry Co., Ltd.)	4D11 Effect of Processing History on Flow-Induced Crystallization of Polyethylene with Long-Chain Branches *Kenta Komatsu1, Naoki Yamano2, Masayuki Yamaguchi3 (1 Polymer Materials Research Laboratory, Tosoh Corporation, 2 Planning & Coordination, Polymers Division, Tosoh Corporation, 3 Japan Advanced Institute of Science and Technology)
16:05 - 16:25	4A12 Predicting the tension of single polymer chain from the stress of highly-stretched polymer network *Tsutomu Indei1,2, Takahiro Matsuda4, Tasuku Nakajima1,2,3, Tatiana Kouznetsova5, Michael Rubinstein2,3,5,6,7,8, Stephen Craig2,5, Jian Ping Gong1,2,3, (1 Faculty of Advanced Life Science, Hokkaido University, 2 Soft Matter GI-CoRE, Hokkaido University, 3 Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University, 4 Graduate School of Life Science, Hokkaido University, 5 Department of Chemistry, Duke University, 6 Thomas Lord Department of Mechanical Engineering and Materials Science, Duke University, 7 Department of Biomedical Engineering, Duke University, 8 Department of Physics, Duke University)		4C12 Contraction flow of strain-hardening polymer melts: Flow visualization, birefringence, and simulations *Keiko Takeda1, Masahiro Nagai1, Sathish Sukumaran1, Masataka Sugimoto1 (1 Yamagata University)	4D12 Impact of LDPE blend on rheological properties and film processability for PP *Yoko Fujii1,2, Masayuki Yamaguchi2, Toshihiko Okumura1 (1 Osaka Research Institute of Industrial Science and Technology, 2 1.Japan Advanced Institute of Science and Technology)	
16:25 - 16:45	4A13 A Finite Deformation Model for Slide-Ring Gels Proposed by Coarse-Grained Molecular Dynamics Simulations. *Yusuke Yasuda1, Masatoshi Toda2, Koichi Mayumi3, Hiroshi Morita2, Kohzo Ito3,4, (1 Kansai Univ., 2 AIST, 3 the Univ. of. Tokyo, 4 NIMS)		4C13 Impact of the Solvent Dielectric Constant on the Counterion Condensation of Poly(ionic liquid)s in Solutions *Atsushi Matsumoto1, Hiroto Osada1, Hou Can2, Carlos Lopez3, Takaichi Watanabe4, Yasushi Maeda1, Shinji Sugihara1, (1 University of Fukui, 2 RWTH Aachen University, 3 The Pennsylvania State University, 4 Okayama University)	4D13 Controlling Dimensional Change of Poly(lactic acid) Blend during Annealing via Molecular Orientation Enhancement *Hoang-Giang Vo1, Masayuki Yamaguchi1 (1 Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology)	