

\* PRCR 2018 Program Timetable

June 11 (Monday)						
8:30-9:15	Registration					
9:15-9:30	[Room: Island Ballroom A+B] Opening Ceremony					
9:30-10:30	[PL1] Inkjet Printing of Rheologically Complex Fluids <i>Chair: Do Hyun KIM (Changyoup KIM (Korea University, Korea))</i>					
10:30-11:30	[PL2] The Dynamics of Polymer Solutions At Finite Concentrations <i>Chair: Jason R. STOKES (Ravi JAGADEESHAN (Monash University, Australia))</i>					
11:30-13:00	Lunch					
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A	Wind B
Session	G3. Polymer Solutions & Melts	G6. Suspensions, Colloids, and Glasses	G11. General Rheology	G7. Surfactants, Emulsions, and Foams	S1. Advanced Electronics / Display Materials & Processing	S2. Advanced Energy Materials & Processing
Chair	Hiroshi WATANABE Yumi MATSUMIYA	Yee-Kwang LEONG Ryohei SETO	Seung Joon PARK Shigeru YAO	Joung Sook HONG Peter FISCHER	Yong Tae PARK Jun Hyup LEE	Felix Sunjoo KIM Hongseok YUN
13:00-13:20	[13:00-13:30] [KLG3-01] Shear-Induced Conformational Changes of Flexible and Semi-Rigid Engineering Thermoplastics and their Influence on Crystallization <i>Ralph H. COLBY (Penn State University, USA)</i>	[ORG6-01] Strain Softening of Strongly-Flocculated Particulate Suspensions <i>Anthony D. STICKLAND (The University of Melbourne, Australia)</i>	[ORG11-01] Rheological Properties of Gelled Waxy Crude Oil with Direct Current Electric Field <i>Hongying LI (China University of Petroleum-Beijing, China)</i>	[13:00-13:30] [KLG7-01] Janus Colloid Surfactants for Pickering Emulsion Microreactors <i>Jin Woong KIM (Hanyang University, Korea)</i>	[13:00-13:30] [KLS1-01] High Conductivity and Power Factor in Completely Organic Thermoelectric Nanocoatings for Flexible Films and Textiles <i>Jaime C. GRUNLAN (Texas A&amp;M University, USA)</i>	[13:00-13:30] [KLS2-01] Polymer-Halide Perovskite Composites for Light Emitting Diodes <i>Biviu MA (Florida State University, USA)</i>
13:20-13:40		[ORG6-02] Transient Mechanical Relaxation Behavior of Glassy Polymers Subjected to a Stepwise Change of Compression Rate <i>Shinya YOSHIOKA (Osaka City University, Japan)</i>	[ORG11-02] The Effects of Attagulite on The Rheological Properties of Tetrahydrofuran Hydrate <i>Shuli WANG (Changzhou University, China)</i>			
13:40-14:00	[13:30-13:50] [ORG3-01] Linear Viscoelastic Behavior of Metalloene EPDM and EBDM <i>Takeharu ISAKI (Mitsui Chemicals, Inc., Japan)</i>	[ORG6-03] Viscoelasticity of Dense Suspensions of Thermosensitive Microgel Mixtures Undergoing Colloidal Gelation <i>Saori MINAMI (Kyoto Institute of Technology, Japan)</i>	[ORG11-03] Rheological Analysis of Metal/Ceramic Mixed Feedstock for Injection Molding <i>Jong Won BAEK (Pohang University of Science and Technology (POSTECH), Korea)</i>	[13:30-14:00] [KLG7-02] Gas Marbles: Strength and Gas Permeability <i>Florence ROUYER (Universite Paris-Est, France)</i>	[13:30-14:00] [KLS1-02] Self-assembled Polymer Nanocomposites for Stimuli-Interactive Display <i>Cheolmin PARK (Yonsei University, Korea)</i>	[13:30-14:00] [KLS2-02] Fabrication of Perovskite Nanoparticle Composite Films and Their Applications <i>Youngjong KANG (Hanyang University, Korea)</i>
14:00-14:20	[13:50-14:10] [ORG3-02] Effect of Hydrogen Bonding Interaction on the Rheological Behavior of Polyurethanes <i>Osamu URAKAWA (Osaka University, Japan)</i>	[ORG6-04] Rheological and Adhesive Properties of Li-ion Battery Anode Electrode using Capillary Suspension Concept with Latex Binder <i>Jieun PARK (Seoul National University, Korea)</i>	[ORG11-04] Point-Wise Method for the Direct Conversion from Creep to Dynamic Data <i>SiHyun KIM (Kyungpook National University, Korea)</i>	[ORG7-01] Preparation of Multilayered Microcellular Silicone Rubber Foam and Compressive Property <i>Tao LIU (China Academy of Engineering Physics, China)</i>	[ORS1-01] Improving Electrical Conductivity of HDPE/PLA Co-Continuous Polymer Blend by Localizing Graphene at the Blend Interface <i>Sung Gik MUN (University of Minnesota, USA)</i>	[ORS2-01] Nano-dispersion of Boron Nitride Nanotubes for Facile Fabrication of Energy-related Nanomaterials <i>Se Gyu JANG (Korea Institute of Science and Technology (KAIST), Korea)</i>
14:20-14:40	[14:10-14:30] [ORG3-03] Gel Relaxation Dynamics in Bio-compatible ABA triblock copolymer Hydrogel <i>Seong-eun GANG (Hongik University, Korea)</i>	[ORG6-05] Effect of Stretching and Aging on Enthalpy Relaxation of Polystyrene Film: the Relation of Stretching and the Increase in Fictive Temperature <i>Yutaka TANAKA (University of Fukui, Japan)</i>	[ORG11-05] Gradient Regularization of Mu(I) Rheology for Granular Flow <i>Jaesung LEE (Inha Technical College, Korea)</i>	[ORG7-02] Electrically Conductive Microcellular Foams Made from High Internal Phase Emulsion Templates <i>Seong Jae LEE (The University of Suwon, Korea)</i>	[ORS1-02] Synthesis of Green Light-emitting Carbon Dot Powder as Promising Phosphors <i>Hyo Jaeng YOO (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORS2-02] Universal Aqueous Processing of Highly-Crystalline Conjugated Polymers and Fullerene Mono-Adduct for Eco-Friendly Solvent-Processable Polymer Solar Cells <i>Changyeon LEE (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:40-15:00		[ORG6-06] The Rheological Effects of Inorganic Materials in the Polymeric Liquid and Morphology of its Film State <i>Seung Hak LEE (Pusan National University, Korea)</i>	[ORG11-06] Rheological Study of Bimodal Powder Feedstock for Injection Molding <i>Joo Won OH (Pohang University of Science and Technology (POSTECH), Korea)</i>	[ORG7-03] Effect of Surface Properties in Dense Wax Suspension System <i>Ji Won YOON (Seoul National University, Korea)</i>		[ORS2-03] A Doped Hole-selective Layer for Efficient and Stable Quantum Dot Solar Cells <i>Sang-Hoon LEE (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
15:00-15:20	Break (20 min)					
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A	Wind B
Session	G3. Polymer Solutions & Melts	G6. Suspensions, Colloids, and Glasses	G11. General Rheology	G4. Computational Rheology	S1. Advanced Electronics / Display Materials & Processing	S2. Advanced Energy Materials & Processing
Chair	Ralph H. COLBY Osamu URAKAWA	Myung-Suk CHUN	Jaesung LEE	Seong Jin PARK Xue-Feng YUAN	Yong Tae PARK Jun Hyup LEE	Se Gyu JANG Jung-Yong LEE
15:20-15:40	[ORG3-04] Uniaxial Extensional Behavior of Untangled Polymer Melts <i>Yumi MATSUMIYA (Kyoto University, Korea)</i>	[15:20-15:50] [KLG6-01] Shear Thickening of Condensed Suspension Induced by Nano-particles <i>Yoshiyuki KOMODA (Kobe University, Japan)</i>	[15:20-15:50] [KLG11-01] Stress Bifurcation and Viscoelastic Wall Slip Behavior of Yield Stress Fluids under Large Amplitude Oscillatory Shear <i>Wei YU (Shanghai Jiao Tong University, China)</i>	[15:20-15:50] [KLG4-01] Non-Equilibrium Statistical Mechanical Theory of Continuum Mechanics Comparable with Dissipative Particle Dynamics <i>Kwang Soo CHO (Kyungpook National University, Korea)</i>	[15:20-15:50] [KLS1_03] Oriented Grains with Preferred Low-angle Grain Boundaries in Halide Perovskite Films by Pressure-induced Crystallization <i>Jong Hyeok PARK (Yonsei University, Korea)</i>	[15:20-15:50] [KLS2-03] New Materials for ETLs and HTLs and Understanding of their Roles in Charge Extraction at the Perovskite Solar Cells <i>Taiho PARK (Pohang University of Science and Technology (POSTECH), Korea)</i>
15:40-16:00	[ORG3-05] Concentration Dependence of Rheological Properties of Untangled Polymer Solutions <i>Prabhatkar BANGANATHAN (Monash University, Australia)</i>			[15:50-16:10] [ORG4-01] Multi-Chain Slip-Spring Simulations for Branch Polymers <i>Yuichi MASUBUCHI (Nagoya University, Japan)</i>		
16:00-16:20	[ORG3-06] Investigation of Intrinsic-nonlinear Master Curves for Model PS Solution in Medium Amplitude Oscillatory Shear (MAOS) Regime <i>Hyeong Yong SONG (Pusan National University, Korea)</i>	[15:50-16:10] [ORG6-07] Chiral Separation of Propeller-like Particle in External Field <i>Masato MAKINO (Yamagata University, Japan)</i>	[15:50-16:10] [ORG11-07] Viscoelastic Behavior of Dilute Aqueous Solution of Chemically Modified Cellulose Ethers in a High Frequency Range using Dynamic Light Scattering Techniques <i>Toshiyuki SHIKATA (Tokyo University of Agriculture and Technology, Japan)</i>	[16:10-16:30] [ORG4-02] Thermodynamic Instability of Polymeric Liquids in Large-Amplitude Oscillatory Shear Flow from Corotational Maxwell Fluid <i>Chaimongkol SAENGOWE (Queen's University, Canada)</i>	[15:50-16:10] [ORS1_03] Fabrication of Large-sized Multi-functional Micro/nano Composites with Mechanical and Electrical Performances <i>Dong Gi SEONG (Pusan National University, Korea)</i>	[15:50-16:10] [ORS2-04] Impact of Side Chain Engineering and Molecular Weight Control of Polymer Acceptors in Morphology and Performance of All-Polymer Solar Cells <i>Bunjeon J. KIM (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
16:20-16:40	[ORG3-07] Study on Thermo-Thickening Behavior of Chitosan-graft-polyacrylamide Aqueous Solution <i>Yangzhang SHANGGUAN (Zhejiang University, China)</i>	[16:10-16:30] [ORG6-08] Tuning Nanoparticle Suspension Rheology for 3D Printing of Silica-Titania Glass <i>Mikola DUDKOVIC (Lawrence Livermore National Laboratory, USA)</i>	[16:10-16:30] [ORG11-08] General Application of Fixed Point Iteration Algorithm to Linear Viscoelastic Identification <i>Junghoeng LEE (Kyungpook National University, Korea)</i>	[16:30-16:50] [ORG4-03] Dissipative Particle Dynamics Simulation for Self-assembly and Rheological Properties of Surfactant Aqueous Solution in Nanotubes <i>Yusei KOBAYASHI (Kindai University, Japan)</i>	[16:10-16:40] [KLS1_04] Interfaces and Boundaries for Efficient Lead Halide Perovskite-based Hybrid Light-Emitting Diodes <i>Tzung-Fang GUO (National Cheng Kung University, Taiwan)</i>	[16:10-16:30] [ORS2-05] Conjugated Polymer Composites for Energy and Signal Conversion Devices <i>Felix Sunjoo KIM (Chung-Ang University, Korea)</i>
16:40-17:00	[ORG3-08] Influence of Short- and Long-chain Branches on the Rheological Behaviors of Short-chain Branched H-shaped Polymers under Shear and Uniaxial Elongational Flows <i>Seung Heum JEONG (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	[16:30-16:50] [ORG6-09] Aging Behavior and Microstructure of Smectic Clay Gels <i>Yee-Kwang LEONG (The University of Western Australia, Australia)</i>		[16:50-17:10] [ORG4-04] Effects of Short-Chain Branches on Structure and Dynamics of Ring Polymer Melts Using Molecular Dynamics Simulations <i>Eun Jung ROH (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	[16:40-17:10] [KLS1_05] Boosting the Efficiency in Perovskite Light-emitting Diodes <i>Tae-Woo LEE (Seoul National University, Korea)</i>	[16:30-16:50] [ORS2-06] From the Viewpoint of Crystal Structure on the Yielding Behavior of Wax-decane Gel <i>Shanpeng HAN (China University of Petroleum, Beijing, China)</i>
17:00-18:30	Poster Session I					

\* PRCR 2018 Program Timetable

June 12 (Tuesday)						
8:30-9:00	Registration					
9:00-10:00	[PL3] Recent Progress of Rheo-optical Studies on Polymeric Systems <i>Tadashi INOUE (Osaka University, Japan)</i>					
10:00-11:00	[PL4] Connecting Rheology to the Nanoscale Structure of Block Copolymer Solution based Nanocomposites <i>Lynn M. WALKER (Carnegie Mellon University, USA)</i>					
11:00-11:30	[The 2nd Walkers Prize Award & Keynote Talk] [KLPW-01] Modeling Interfaces and Particles in Viscoelastic Fluids <i>Nick JAEINSSON (Eindhoven University of Technology, The Netherlands)</i>					
11:30-13:00	Lunch					
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A	Wind B
Session	G3. Polymer Solutions & Melts	G6. Suspensions, Colloids, and Glasses	S3. Honorary Session for Prof. Seung Jong LEE	G4. Computational Rheology	G1. Materials Processing	S2. Advanced Energy Materials & Processing
Chair	Kyu HYUN Takashi UNEYAMA	Ruri HIDEAMA Sarah HORMOZI	Kyung Hyun AHN	Anthony D. STICKLAND Tae Gon KANG	Prabhakar RANGANATHAN	Bumjoon KIM Biwu MA
13:00-13:30	[KLG3-02] A Novel Low-field RheoNMR Combination for the Study of Soft Materials <i>Manfred WILHELM (Karlsruhe Institute of Technology (KIT), Germany)</i>	[KLG6-02] Wall-bounded Flow of Colloidal Suspensions <i>Jaao MAIA (Case Western Reserve University, USA)</i>	[KLS3-01] Recent Developments in Nonlinear Dynamics and Stability in the Film Blowing Processes of Various Polyethylenes <i>Jae Chun HYUN (Korea University, Korea)</i>	[KLG4-02] Non-linear Dynamics of Macromolecular Solutions in Microfluidics <i>Xue-Feng YUAN (Guangzhou University, China)</i>	[KLG1-01] Clinical Analysis of Past Work to New Solid Conveying Theory <i>Kun Sup HYUN (Polymer Processing Institute, USA)</i>	[KLS2-04] Organic Photovoltaic Materials for Next Generation Green Energy Sources <i>Han Young WOO (Korea University, Korea)</i>
13:30-14:00	(13:30-13:50) [ORG3-09] Viscoelasticity and Glass Transition Temperatures of Series of Model Poly(alkylstyrene)s <i>Atsushi TAKANO (Nagoya University, Japan)</i>	(13:30-13:50) [ORG6-10] Macroscopic Flows of Dense Suspensions in Wide-gap Couette Cells—Migration and Shear Thickening <i>Fyohei SETO (Kyoto University, Japan)</i>	[KLS3-02] Rheology and Adhesion of Human Cell Monolayers <i>Gerald G. FULLER (Stanford University, USA)</i>	(13:30-13:50) [ORG4-05] Numerical Study on the Dynamic of Elliptic Janus Magnetic Particles <i>Tae Gon KANG (Korea Aerospace University, Korea)</i>	[KLG1-02] Analysis of Thin-film Formation Flows for Coating Processes <i>Jaewook NAM (Seoul National University, Korea)</i>	[KLS2-05] Morphological Control of Polymeric Films on Liquid Substrates <i>Jung-Yang LEE (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:00-14:20	(13:50-14:10) [ORG3-10] Viscoelastic Relaxation of Transient Networks in Polymeric Matrix <i>Takuya KATASHIMA (Osaka University, Japan)</i>	(13:50-14:10) [ORG6-11] Flow Analysis of Polyelectrolyte Suspensions in Microchannels with Polymer Brush Layer <i>Myung-Suk CHUN (Korea Institute of Science and Technology (KIST), Korea)</i>	(14:00-14:30) [KLS3-03] Use of Dielectric Method in Rheological Investigation of Softmatters <i>Hiroshi WATANABE (Kyoto University, Japan)</i>	(13:50-14:10) [ORG4-06] Structural and Rheological Behaviors of Interfacial Polymer under Shear Flow using Nonequilibrium Molecular Dynamics Simulation <i>Jun Mo KIM (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	[ORG1-01] Relationship between Replication of Microstructure on Rubber and Rheological Properties <i>Chihro KANEKO (Yamagata University, Japan)</i>	[ORS2-07] Polymorphism Control of Polymer Coated Gold Nanocrystals <i>Hongseok YUN (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:20-14:40	(14:10-14:30) [ORG3-11] Entanglements in Binary Polymer Blends: Insights from Molecular Simulations <i>Sathish K. SUKUMARAN (Yamagata University, Japan)</i>	(14:10-14:30) [ORG6-12] Micro-Gap Flow Evaluation of Electro-Rheological Nano-Suspension <i>Katsutomi TANAKA (Kyoto Institute of Technology, Japan)</i>	(14:30-15:00) <i>"It is a great regret to inform you of the unexpected death of Prof. M. F. Webster in mid-May. We respectfully express our sincere condolences."</i> [KLS3-04] Boger Fluids, Pressure-drops and Contraction Flows - Some Recent Advances in Rheological Predictive Modelling <i>M. F. WEBSTER (Swansea University, United Kingdom)</i>	(14:10-14:30) [ORG4-07] Resolving Scaling Laws of Polymer Melts in Molecular Simulations <i>Ryota MIWATANI (Kindai University, Japan)</i>	[ORG1-02] Thermal and Viscoelastic Properties of CFRTP with Reactive Process <i>Takashi KUROSE (Yamagata University, Japan)</i>	[ORS2-08] Metallic Cotton Fiber-based Biofuel Cells with High Power Density <i>Cheong Hoon KWON (Korea University, Korea)</i>
14:40-15:00	(14:30-14:50) [ORG3-12] Understanding the Role of Localization and Distribution of Different Types of Nanoclays on the Microstructure of Compatibilized PLA/PBS Blends with Nonlinear Rheological Analysis <i>Reza SALEHIYAN (Council for Scientific and Industrial Research, South Africa)</i>	(14:30-14:50) [ORG6-13] The Effect of the Geometry of Kneading Disk on the Unsteady Dispersion of Fine Particles in a Two Dimensional Cylinder with an Elliptic Rotor <i>Koji MASUDA (Kobe City College of Technology, Japan)</i>	(14:30-15:00) <i>"It is a great regret to inform you of the unexpected death of Prof. M. F. Webster in mid-May. We respectfully express our sincere condolences."</i> [KLS3-05] LAOS, Fractional Calculus and Failure of Food Gels <i>Gareth H. MCKINLEY (MIT, USA)</i>	(14:30-14:50) [ORG4-08] A Multiscale Simulation Study for Flows of a Well-entangled Polymer Melt in a Contraction-expansion Channel <i>Takeshi SATO (Kyoto University, Japan)</i>	[ORG1-03] Cost-effective and Fast Production of PMMA Nanofiber by Centrifugal Spinning and its Application for Filter <i>Byeong Eun KWAK (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORS2-09] Development of Hydrophobicity on Adsorption and Rheology Protein Adsorption Layers at Oil-water Interfaces <i>Peter FISCHER (ETH Zurich, Switzerland)</i>
15:00-15:20	Break (20 min)					
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A	Wind B
Session	G3. Polymer Solutions & Melts	G2. Non-Newtonian Fluid Mechanics & Microfluidics	S3. Honorary Session for Prof. Seung Jong LEE	G7. Surfactants, Emulsions, and Foams	G8. Interface & Microrheology	G9. Experimental Techniques
Chair	Manfred WILHELM Wei YU	Ruri HIDEAMA Heon Sang LEE	Kyung Hyun AHN	Joung Sook HONG Peter FISCHER	Siyoung CHOI Se Gyu JANG	Yumi MATSUMIYA Manabu KATO
15:20-15:40	[ORG3-13] Rheological Behavior of Partially Melted High-Density Polyethylene near Melting Point <i>Takashi UNEYAMA (Kanazawa University, Japan)</i>	[ORG2-01] The Consistency between Fluidity Indexes of Waxy Crude Oil: Gel Point, Pour Point and Yield Stress <i>Wen Wen LIU (China University of Petroleum (Beijing), China)</i>	(15:20-15:50) [KLS3-05] LAOS, Fractional Calculus and Failure of Food Gels <i>Gareth H. MCKINLEY (MIT, USA)</i>	(15:20-15:50) [KLG7-03] Microstructure, Rheology, and Flow Instability of Wormlike Micellar Solutions under Spatial Confinement and Flow Conditions <i>Amy O. SHEN (Okinawa Institute of Science and Technology Graduate University, Japan)</i>	[ORG8-01] Effect of oil Hydrophobicity on Adsorption and Rheology Protein Adsorption Layers at Oil-water Interfaces <i>Peter FISCHER (ETH Zurich, Switzerland)</i>	[ORG9-01] Development of Hydrophobicity on Adsorption and Rheology Protein Adsorption Layers at Oil-water Interfaces <i>Ryou ARII (National Institute of Technology, Japan)</i>
15:40-16:00	[ORG3-14] Extrusion Foaming with Thermal Expandable Microcapsules Depending on Rheological Property of Base Polymer and Processing Condition <i>Shota TAKIGUCHI (Yamagata University, Japan)</i>	[ORG2-02] Gear-Shaped Micromixer with Inertio-Elastic Flow Instability <i>Sun Ok HONG (Ajou University, Korea)</i>	(15:50-16:20) [KLS3-06] Flow of Particulate Fluids <i>Kyung Hyun AHN (Seoul National University, Korea)</i>	(15:50-16:20) [KLG7-04] Self-Assembly and Properties of Block Copolymers: Molecular Dynamic Simulations <i>Won Bo LEE (Seoul National University, Korea)</i>	[ORG8-02] Processable High Internal Phase Pickering Emulsions <i>Siyoung CHOI (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORG9-02] The Use of Modern Rheometers in Powder and Granular Media measurements for Scientific and Industrial Purposes <i>Denis SCHUETZ (Anton Paar GmbH, Austria)</i>
16:00-16:20	[ORG3-15] Baking Property of Pure Rice Batter Depending on Variety of Rice <i>Hiroko YANO (Yamagata University, Japan)</i>	[ORG2-03] Vortex Deformation and Lock-on in a Two-Dimensional Turbulent Flow of Polymer Solutions <i>Ruri HIDEAMA (Kobe University, Japan)</i>	(15:50-16:20) [KLS3-06] Flow of Particulate Fluids <i>Kyung Hyun AHN (Seoul National University, Korea)</i>	(15:50-16:20) [KLG7-04] Self-Assembly and Properties of Block Copolymers: Molecular Dynamic Simulations <i>Won Bo LEE (Seoul National University, Korea)</i>	[ORG8-03] A Fractal Model for the Viscosity of Waxy Crude Oil <i>Mengran SUN (China University of Petroleum-Beijing, China)</i>	[ORG9-03] Hysteresis Loop Test for Complex Fluids with Yield-Like Behavior <i>Yasunori SATO (Nagaoka University of Technology, Japan)</i>
16:20-16:40	[ORG3-16] Synergistic Enhancement of Rheological Properties in the Mixtures of Wormlike Surfactant Micelles and Polymer Chains <i>Andrey SHIBAEV (Lomonosov Moscow State University, Russia)</i>	[ORG2-04] Shape Analysis of Oblate Particles Utilizing a Cross-slot Microchannel <i>Bookun KIM (Ajou University, Korea)</i>	(15:50-16:20) [KLS3-06] Flow of Particulate Fluids <i>Kyung Hyun AHN (Seoul National University, Korea)</i>	[ORG7-04] Rheology of Cholesteric Blue Phase I <i>Shuji FUJII (Hokkaido University, Japan)</i>	[ORG8-04] Effect of Lubricant Viscosity on the Drag Reduction of Submerging Object with Slippery Liquid-Infused Porous Surface <i>Eunjun LEE (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORG9-04] Employing Rheological Methods to Study Polymer Long Chain Branching <i>Tianhong CHEN (TA Instruments-Waters LLC, USA)</i>
16:40-17:00	[ORG3-17] Influence of Closed-loop conformation of the Polymer on the Interfacial Molecular Mechanisms under Shear Flow <i>Sohdam JEONG (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	[ORG2-05] Structural Analysis of Aggregate Restriction and Breakage under Uniaxial Elongational Flow <i>Sung Hui KIM (Seoul National University, Korea)</i>	(15:50-16:20) [KLS3-06] Flow of Particulate Fluids <i>Kyung Hyun AHN (Seoul National University, Korea)</i>	[ORG7-04] Rheology of Cholesteric Blue Phase I <i>Shuji FUJII (Hokkaido University, Japan)</i>	[ORG8-04] Effect of Lubricant Viscosity on the Drag Reduction of Submerging Object with Slippery Liquid-Infused Porous Surface <i>Eunjun LEE (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORG9-05] Evaluation of Molecule Orientation on Liquid Surface in Drying Process using by Anisotropic Reflection <i>Shiro WAKAKI (Nagaoka University of Technology, Japan)</i>
17:00-18:30	Poster Session I					

\* PRCR 2018 Program Timetable

Date/ Time	June 13 (Wednesday)		
8:30-9:00	Registration		
9:00-10:00	[Room: Island Ballroom A+B] <i>Chair: Wei YU</i>	[PL5] A Novel Rotation Extrusion Rheometer <i>Qi WANG (Sichuan University, China)</i>	
10:00-10:20	Break (20 min)		
Room	Island Ballroom A+B	Island Ballroom C	Stone A+B
Session	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G10. Bio & Food Rheology	G5. Gels and Rubbers
Chair	Young Seok SONG	Kyongok KANG	Yang Ho NA
10:20-10:50	[KLG2-01] The Sedimentation of Particle Suspensions in Viscoelastic Fluids with and without Applied Shear <i>Eric S. G. SHAQFEH (Stanford University, USA)</i>	[KLG10-01] Role of Protein-Protein Interactions in Non-Linear Rheometry of Dense Solutions of Monoclonal Antibodies <i>Alfredo LANZARO (Lund University, Sweden)</i>	[KLG5-01] Nonlinear Elasticity and Internal Fracture of Double Network Hydrogels Characterized by Multiaxial Stretching <i>Kenji URAYAMA (Kyoto Institute of Technology, Japan)</i>
10:50-11:10	(10:50-11:20) [KLG2-02] A New Method for Stable Core Annular Flow of Heavy Oils <i>Ian FRIGAARD (University of British Columbia, Canada)</i>	[ORG10-01] Effect of Physical Aging on Creep Properties of Resin Reinforced Bioboard <i>Yu Guo LI (Central South University of Forestry and Technology, China)</i>	[ORG5-01] Orthogonally Double Directional Crosslinking Supramolecular Networks and their Self-healing Properties <i>Jae Woo CHUNG (Soongsil University, Korea)</i>
11:10-11:30			[ORG5-02] Nanorheological Atomic Force Microscopy for Polymeric Materials <i>Ken NAKAJIMA (Tokyo Institute of Technology, Japan)</i>
11:30-13:30	Lunch		
13:30-18:00	Excursion		

\* PRCR 2018 Program Timetable

Date/ Time	June 14 (Thursday)				
8:30-9:00	Registration				
9:00-10:00	[Room: Island Ballroom A+B] <i>Chair: Hiroshi WATANABE</i>		[PL6] Mechanical Behavior of Time-dependent Elasto-visco-plastic Materials <i>Paulo Roberto de Souza MENDES (PUC-Rio, Brazil)</i>		
10:00-10:20	Break (20 min)				
Room	Island Ballroom A+B		Island Ballroom C	Stone A+B	Wind A+B
Session	G6. Suspensions, Colloids, and Glasses		G11. General Rheology	G5. Gels and Rubbers	G1. Materials Processing
Chair	Heon Sang LEE		Petrik GALVOSAS	Tetsuo YAMAGUCHI	Doojin LEE
10:20-10:50	[KLG6-03] Liquid to Solid Transition in Soft Material Suspensions <i>Jason R. STOKES (The University of Queensland, Australia)</i>		[KLG11-02] Anisotropy of Photo-elastic Coefficient in Oriented Polycarbonate Film <i>Shogo NOBUKAWA (Nagoya Institute of Technology, Japan)</i>	[KLG5-02] Processing of Tough Supramolecular Hydrogels <i>Zi Liang WU (Zhejiang University, China)</i>	[KLG1-03] A Study on Sealing Micro-Fluidic Channels by Ultra-Sonic Welding <i>Yeong-Eun YOO (Korea Institute of Machinery and Materials, Korea)</i>
10:50-11:10	[ORG6-14] Rheology of Particle-filled Polymeric Complex Systems <i>Qiang ZHENG (Zhejiang University, China)</i>		[ORG11-09] Temperature and Shear Deformation Influence for Mechanical Properties of Amorphous Polystyrene Film <i>Shigeru YAO (Fukuoka University, Japan)</i>	[ORG5-03] Rheo-Kinetics of Bovine Serum Albumin in Catanionic Surfactant Systems <i>Osita NNYIGIDE (Pusan National University, Korea)</i>	[ORG1-04] Cooling Effect on Stability in Viscoelastic Film Casting Processes <i>Changhoon LEE (Korea University, Korea)</i>
11:10-11:30	[ORG6-15] Coupling Structure and Rheology of Soft Glasses under LAOS <i>Simon A. ROGERS (University of Illinois at Urbana-Champaign, USA)</i>		[ORG11-10] Visualization and Quantifying Analysis of Entrapped Air Bubbles during Plasticizing in the Injection Molding <i>Eunsu HAN (Ajou University, Korea)</i>		[ORG1-05] Analysis of Shear Stress for Graphene Exfoliation in Taylor-Couette Flow <i>Donghyuk SEO (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
11:30-13:00	Lunch				
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A+B
Session	G6. Suspensions, Colloids, and Glasses	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G11. General Rheology	G5. Gels and Rubbers	G9. Experimental Techniques
Chair	Qiang ZHENG Simon A. ROGERS	Jaewook NAM Wook Ryol HWANG	Jaseung KOO	Ken NAKAJIMA Jae Woo CHUNG	Kwang Soo CHO
13:00-13:20	(13:00-13:30) [KLG6-04] Confinement Effect on Synchronized Motions of Driven Colloids on a Path <i>Takashi TANIGUCHI (Kyoto University, Japan)</i>	(13:00-13:30) [KLG2-03] A General Approach on the Quantification of Effective Quantities in a Pressure-driven Flow of Inelastic Non-Newtonian Fluid in Arbitrary Geometries based on the Energy Balance <i>Wook Ryol HWANG (Gyeongsang National University, Korea)</i>	(13:00-13:30) [KLG11-03] Influence of Shear Geometry Design on Shear Banding as Studied with Rheo-NMR <i>Petrik GALVOSAS (Victoria University of Wellington, New Zealand)</i>	[ORG5-04] Unique Color Changing Behavior of Structural Colored Elastomers in Organic Solvent <i>Katsuhiro INOMATA (Nagoya Institute of Technology, Japan)</i>	(13:00-13:30) [KLG9-01] Viscoelastic Property of Polymer Materials Based on Dynamic X-ray Scattering/Diffraction Methods <i>Ken KOJIO (Kyushu University, Japan)</i>
13:20-13:40				[ORG5-05] Retarded Terminal Dynamics Contributing to Rheology of Filled Rubbers <i>Yihu SONG (Zhejiang University, China)</i>	
13:40-14:00	(13:30-13:50) [ORG6-16] Lateral Diffusion and Steady Shear Viscosity of GO Dispersions <i>Heon Sang LEE (Dong-A University, Korea)</i>	(13:30-13:50) [ORG2-06] Viscosity Measurement of Non-Newtonian Fluids in Pressure-driven Flows of Arbitrary Geometries Based on the Energy Balance <i>Hye Kyeong JANG (Gyeongsang National University, Korea)</i>	(13:30-13:50) [ORG11-11] Rheo-Raman Study of the Microscopic Deformation Behavior of High-density Polyethylene with Various Molecular Weight Distribution <i>Takumitsu KIDA (Kanazawa University, Japan)</i>	[ORG5-06] Induced Anisotropy by Mullins Effect in Filled Elastomers Subjected to Stretching with Various Geometries <i>Thanh-Tam MAI (Kyoto Institute of Technology, Japan)</i>	(13:30-13:50) [ORG9-06] A New Shear-Induced Polarized Light Imaging (SIPLI) Technique and its Applications <i>Joerg LAEUGER (Anton Paar Germany, Germany)</i>
14:00-14:20	(13:50-14:10) [ORG6-17] On the CST to DST Transition in Bidisperse Shear Thickening Suspensions <i>Sarah HORMOZI (Ohio University, USA)</i>	(13:50-14:10) [ORG2-07] Flow-induced Orientational Changes of Polymer Solutions in a Planar Channels with an Abrupt Expansion <i>Taisuke SATO (Niigata University, Japan)</i>	(13:50-14:10) [ORG11-12] Rheological Investigation of PMN-PZT Ceramic Feedstock for Micro Powder Injection Molding <i>Jae Man PARK (Pohang University of Science and Technology (POSTECH), Korea)</i>	[ORG5-07] Influence of Asphaltene Polarity on Crystallization and Gelation of Waxy Oils <i>Yingda LU (China University of Petroleum, Beijing, China)</i>	(13:50-14:10) [ORG9-07] Evaluation of First Normal Stress Difference from Resistant Force Acting on Inner Cylinder of Sliding Concentric Cylinder Flow Cell <i>Yukinobu SUGIHARA (Nagaoka University of Technology, Japan)</i>
14:20-14:40	(14:10-14:30) [ORG6-18] A Comparative Study on Rheological Characteristics of NMP-based and Water-based Lithium-ion Battery Slurries <i>Sanghoon SUNG (Seoul National University, Korea)</i>	(14:10-14:30) [ORG2-08] Actual Rheological Properties of Time-dependent Fluid Measured by Rotational Rheometer during the Initial Shearing Stage <i>Lei CHEN (China University of Petroleum, China)</i>	(14:10-14:30) [ORG11-13] Self-standing and Shape-memorable UV-curing Epoxy for Three-dimensional (3D) Continuous-filament Printing <i>Hanna SUN (Sunkyunkwon University, Korea)</i>	[ORG5-08] Study on Hydrothermal Aged of Room-temperature Cured Epoxy Adhesive <i>Hui LI (Central South University of Forestry and Technology, China)</i>	
14:40-15:00	(14:30-14:50) [ORG6-19] Rheological Modeling and Filling Simulation of Magnetic Powder Injection Molding <i>Da Seul SHIN (Pohang University of Science and Technology (POSTECH), Korea)</i>	(14:30-14:50) [ORG2-09] Steady State Extensional Viscosity of PEO Solution using a Differential Pressure Extensional Rheometer on a Chip <i>Seo Gyun KIM (Dong-A University, Korea)</i>	(14:30-14:50) [ORG11-14] Rheology of Complex Ionic Liquids: Experimental and Computational Results <i>Sergei GLAVATSKIH (KTH Royal Institute of Technology, Sweden)</i>	[ORG5-09] Structure and Segmental Dynamics Relationship in Rubber by Dielectric Spectroscopy <i>Fengshun ZHANG (China Academy of Engineering Physics, China)</i>	

15:00-15:20	Break (20 min)				
Room	Island Ballroom A	Island Ballroom B	Island Ballroom C	Stone A+B	Wind A+B
Session	G3. Polymer Solutions & Melts	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G10. Bio & Food Rheology	G5. Gels and Rubbers	G8. Interface & Microrheology
Chair	Sathish K. SUKUMARAN Soo-Hyung CHOI	Wook Ryo HWANG Jaewook NAM	Ju Min KIM	Zi Liang WU	Jiseok LEE Jeong Jae WIE
15:20-15:40	(15:20-15:50) [KLG3-03] Particle-Filled Polymer Melts Manifesting Linear-Nonlinear Dichotomy Rheology <i>Xiaorong WANG (Tongji University, China)</i>	[ORG2-10] Process Viscometry in Flows of Non-Newtonian Fluids using an Agitator <i>Hae Jin JO (Gyeongsang National University, Korea)</i>	(15:20-15:50) [KLG10-02] DNA Hydrogel based Microfluidic Device for Rapid Multiplexed Detection of Infectious Viruses <i>Sehyun SHIN (Korea University, Korea)</i>	(15:20-15:50) [KLG5-03] Fracture of Model Polymer Networks <i>Tetsuo YAMAGUCHI (Kyushu University, Japan)</i>	(15:20-15:50) [KLG8-01] Challenges in Nanofluidics - beyond Navier-Stokes at the Molecular Scale <i>Peter J. DAVIS (RMIT University, Australia)</i>
15:40-16:00		[ORG2-11] Force Balance at Start-up of Stretching Flow of Polymer Solutions <i>Takashi KOSHIBA (National Institute of Technology, Japan)</i>			(15:50-16:10) [ORG8-05] Neutron Reflectivity Measurements for Rheological Properties of Polymer Melts Confined between Graphene Oxide Sheets <i>Jaseung KOO (Chungnam National University, Korea)</i>
16:00-16:20	(15:50-16:10) [ORG3-18] A Nanoparticles Confined Motion-based Linear Viscoelastic Model for PMMA Nanocomposites with Well-dispersed Silica Nanoparticles <i>Wei YOU (Shanghai Jiao Tong University, China)</i>	[ORG2-12] Experimental Study on Rheological Properties of Gemini Surfactant Solutions <i>Dongjie LIU (Xian Jiaotong University, China)</i>	(15:50-16:10) [ORG10-02] Effects of Enzymatic Cross-Linking on the Rheological Properties of Sodium Caseinate Suspensions <i>Norbert RAAK (Technische Universität Dresden, Germany)</i>	(15:50-16:10) [ORG5-10] Effect of Varying the PEG Molecular Weight on Mechanical and Thermal Properties of Pristine PEG based Polyurethane and Polyurethane Containing Silver Nano-Particles <i>Natthida RAKKAPAO (Prince of Songkla University, Thailand)</i>	(16:10-16:30) [ORG8-06] Fabrication of Dynamic Conjugated Organogel via Half-tone Lithography <i>Jiseok LEE (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>
16:20-16:40	(16:10-16:30) [ORG3-19] Study on Dynamic Rheological Properties of Modified Wood Plastic Composites by Nano CaCO <sub>3</sub> <i>Ning YUAN (Central South University of Forestry and Technology, China)</i>	[ORG2-13] On the Effective Slip for Non-Newtonian Flows over Corrugated Surfaces <i>Jia CHEN (Gyeongsang National University, Korea)</i>	(16:10-16:30) [ORG10-03] 3D Orientation Flow Instabilities of Inovirus DNA-fibers <i>Kyongok KANG (Forschungszentrum Juelich, Germany)</i>	(16:10-16:30) [ORG5-11] Effect of Temperature on the Payne Effect of Carbon-black Filled Rubber <i>Wenbo LUO (Xiangtan University, China)</i>	(16:30-16:50) [ORG8-07] Mesoscopic Heterogeneity in Epoxy Curing Process and Its Effect on Macroscopic Physical Properties <i>Mika AOKI (Kyushu University, Japan)</i>
16:40-17:00	(16:30-16:50) [ORG3-20] Characterization for Evaluating the Degree of Dispersion of Polymeric Nanocomposites under Large Amplitude Oscillatory Shear Flows <i>Mingeun KIM (Pusan National University, Korea)</i>	[ORG2-14] Numerical Simulation on Shear Banding in the Confined Flow: Effect of Non-local Stress <i>Howon JIN (Seoul National University, Korea)</i>	(16:30-16:50) [ORG10-04] Enhanced Vertical Flow using Improved Rotor Design in an Open Raceway Pond for the Cultivation of Microalgae <i>Maheen RANA (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	(16:30-16:50) [ORG5-12] Study on Dynamic Viscoelasticity of a Self-made Epoxy Resin Adhesive <i>Dong Lan HU (Central South University of Forestry and Technology, China)</i>	(16:50-17:10) [ORG8-08] Colloidal Probe Dynamics in Gelatin Solution during the Sol-gel Transition <i>Weixiang SUN (South China University of Technology, China)</i>
17:00-17:20	(16:50-17:10) [ORG3-21] Photonic Polymers with Tunability Dramatically Enhanced by Immiscible Selective Solvents <i>Shigeru OKAMOTO (Nagoya Institute of Technology, Japan)</i>				(17:10-17:30) [ORG8-09] Local Conformation and Dynamics of Polyisoprene at Solid Interface <i>Shin SUGIMOTO (Kyushu University, Japan)</i>
17:20-18:30	Break (70 min)				
18:30-20:30	Banquet				

\* PRCR 2018 Program Timetable

Date/ Time	June 15 (Friday)			
8:30-9:00	Registration			
9:00-10:00	[Room: Island Ballroom A+B] [PL7] Exploiting Large-Amplitude Oscillatory Shear Flow <i>Chair: Ian FRIGAARD</i> A. Jeffrey GIACOMIN (Queen's University, Canada)			
10:00-10:20	Break (20 min)			
Room	Island Ballroom A+B	Island Ballroom C	Stone A+B	Wind A+B
Session	G3. Polymer Solutions & Melts	G2. Non-Newtonian Fluid Mechanics & Microfluidics	G4. Computational Rheology	G1. Materials Processing
Chair	Kyu HYUN	Jaewook NAM	Tae Gon KANG	Andrey SHIBAEV
10:20-10:40	(10:20-10:50) [KLG3-04] Stress and Dielectric Relaxation under Fast Shear Flow - a Simulation Study - <i>Jun-ichi TAKIMOTO (Yamagata University, Japan)</i>	[ORG2-15] Instabilities in Buoyant Miscible Displacement Flow of Shear-thinning Fluids in an Inclined Duct <i>Ali ETRATI (University of British Columbia, Canada)</i>	[ORG4-09] Strain Rate and Temperature Dependence of the Mechanical Properties of Polymers: A Universal Time-Temperature Superposition Principle <i>Jun LIU (Beijing University of Chemical Technology, China)</i>	(10:20-10:50) [KLG1-04] A Novel Rheometry: the Screw Rheometer <i>Myung-Ho KIM (Hannam University, Korea)</i>
10:40-11:00		[ORG2-16] A Modified Brownian Dynamics Simulation of Particle Deposition on the Patterned Membrane Surface <i>Seon Yeop JUNG (Seoul National University, Korea)</i>	[ORG4-10] Magnetic Powder Orientation Modeling and Simulation for Magnetic Feedstock <i>Im Doo JUNG (Korea Institute of Materials Science, Korea)</i>	
11:00-11:20	(10:50-11:10) [ORG3-22] The Complex Steady Rheological Behavior of Poly Vinyl Alcohol Aqueous Solution <i>Miao DU (Zhejiang University, China)</i>		[ORG4-11] 2D Computational Viscoelastic Flow Instability and its Dynamic Analysis <i>Youngdon KWON (Sungkyunkwan University, Korea)</i>	(10:50-11:10) [ORG1-06] Fabrication of the PDMS Thin Films as a Scaffold for Animal Cells <i>Ayoung CHOI (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>
11:20-11:40				(11:10-11:30) [ORG1-07] Study on Color Retention of ASA under the Accelerated Weathering Condition <i>Jin Uk HA (Korea Automotive Technology Institute, Korea)</i>