

* PRCR 2018 Program Timetable (Tentative)

Date/ Time	June 11 (Monday)					
8:30-9:00	Registration					
9:00-9:30	[Room: Island Ballroom A+B] Opening Ceremony					
9:30-10:30	[Room: Island Ballroom A+B] [PL1] Inkjet Printing of Rheologically Complex Fluids <i>Chair: Do Hyun KIM</i> <i>Changyup KIM (Korea University, Korea)</i>					
10:30-11:30	[Room: Island Ballroom A+B] [PL2] The Dynamics Of Polymer Solutions At Finite Concentrations <i>Chair: Jason STOKES</i> <i>J. Ravi PRAKASH (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						
13:00-13:20	[13:00-13:30] [KLG3_071] Shear-Induced Conformational Changes of Flexible and Semi-Rigid Engineering Thermoplastics and their influence on Crystallization <i>Ralph COLBY (Penn State University, USA)</i>	[ORG6_246] Strain Softening of Strongly-Flocculated Particulate Suspensions <i>Anthony STICKLAND (The University of Melbourne, Australia)</i>	[ORG11_031] 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_158] Janus Colloid Surfactants for Pickering Emulsion Microreactors <i>Jin Woong KIM (Hanyang University, Korea)</i>	[13:00-13:30] [KLS1_279] High Conductivity and Power Factor in Completely Organic Thermoelectric Nanocoatings for Flexible Films and Textiles <i>Jaime GRUNLAN (Texas A&M University, USA)</i>	[13:00-13:30] [KLS2_165] Polymer-Halide Perovskite Composites for Light Emitting Diodes <i>Bivu MA (Florida State University, USA)</i>
13:20-13:40		[ORG6_205] Transient Mechanical Relaxation Behavior of Glassy Polymers Subjected to a Stepwise Change of Compression Rate <i>Shinya YOSHIOKA (Osaka City University, Japan)</i>	[ORG11_080] The Effects of Attapulgite on the Rheological Properties of Tetrahydrofuran Hydrate <i>Shuli WANG (Changzhou University, China)</i>			
13:40-14:00	[13:30-13:50] [ORG3_070] Hierarchical Modeling of Polystyrene Melts: From Soft Blobs to Atomistic Resolution <i>Guojie ZHANG (Guangzhou University, China)</i>	[ORG6_015] Viscoelasticity of Dense Suspensions of Thermosensitive Microgel Mixtures Undergoing Colloidal Gelation <i>Saori MINAMI (Kyoto Institute of Technology, Japan)</i>	[ORG11_115] 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_024] Gas Marbles: Strength and Gas Permeability <i>Florence ROUYER (Universite Paris-Est, France)</i>	[13:30-14:00] [KLS1_288] Self-assembled Polymer Nanocomposites for Stimuli-Interactive Display <i>Cheolmin PARK (Yonsei University, Korea)</i>	[13:30-14:00] [KLS2_257] 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_142] Linear Viscoelastic behavior of Metalocene EPDM and EBDM <i>Takeharu ISAKI (Mitsui Chemicals, Inc., Japan)</i>	[ORG6_160] Rheological and Adhesive Conversion of Li-ion Battery Anode Electrode using Capillary Suspension Concept with Latex Binder <i>Jieun PARK (Seoul National University, Korea)</i>	[ORG11_192] Point-Wise Method for the Direct Conversion from Creep to Dynamic Data <i>SiHyun KIM (Kyungpook National University, Korea)</i>	[ORG7_164] Preparation of Multilayered Microcellular Silicone Rubber Foam and Compressive Property <i>Tao LIU (China Academy of Engineering Physics, China)</i>	[ORS1_167] 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_271] Nano-dispersion of Boron Nitride Nanotubes for Facile Fabrication of Energy-related Nanomaterials <i>Se Gyu JANG (Korea Institute of Science and Technology (KIST), Korea)</i>
14:20-14:40	[14:10-14:30] [ORG3_153] Effect of Hydrogen Bonding Interaction on the Rheological Behavior of Polyurethanes <i>Urakawa OSAMU (Osaka University, Japan)</i>	[ORG6_258] 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_161] Gradient Regularization of Mu(I) Rheology for Granular Flow <i>Jaesung LEE (Inha Technical College, Korea)</i>	[ORG7_276] Electrically Conductive Microcellular Foams Made from High Internal Phase Emulsion Templates <i>Seong Jae LEE (The University of Suwon, Korea)</i>	[ORS1_055] Synthesis of Green Light-emitting Carbon Dot Powder as Promising Phosphors <i>Hyo Jeong YOO (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORS2_289] Universal Aqueous Processing of Highly-Crystalline Conjugated Polymers and Fullerene Mono-Adduct for Eco-Friendly Solvent-Processable Polymer Solar Cells <i>Changyeon LEE (Korean Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:40-15:00	[14:30-14:50] [ORG3_208] Gel Relaxation Dynamics in Bio-compatible ABA triblock copolymer Hydrogel <i>Seong-eun GANG (Hongik University, Korea)</i>	[ORG6_063] 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_042] Rheological Study of Bimodal Powder Feedstock for Injection Molding <i>Joo Won OH (Pohang University of Science and Technology (POSTECH), Korea)</i>	[ORG7_120] Effect of Surface Properties in Dense Wax Suspension System <i>Jiwon YOON (Seoul National University, Korea)</i>		[ORS2_255] A Doped Hole-selective Layer for Efficient and Stable Quantum Dot Solar Cells <i>Sang-Hoon LEE (Korean 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						
15:20-15:40	[ORG3_016] Uniaxial Extensional Behavior of Unentangled Polymer Melts <i>Yumi MATSUMIYA (Kyoto University, Korea)</i>	[15:20-15:50] [KLG6_163] Shear Thickening of Condensed Suspension Induced by Nano-particles <i>Yoshiyuki KOMODA (Kobe University, Japan)</i>	[15:20-15:50] [KLG11_026] 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_242] 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_282] Oriented Grains with Preferred Low-angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization <i>Jonghyeok PARK (Yonsei University, Korea)</i>	[15:20-15:50] [KLS2_308] New Materials for ETJs 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_005] Concentration Dependence of Rheological Properties of Unentangled Polymer Solutions <i>Prabakar BANGANNATHAN (Monash University, Australia)</i>			[15:50-16:10] [ORG4_010] Multi-Chain Slip-Spring Simulations for Branch Polymers <i>Yuichi MASUBUCHI (Nagoya University, Japan)</i>		
16:00-16:20	[ORG3_048] Investigation of Intrinsic-nonlinear Master Curves for Model PS Solution in Medium Amplitude Oscillatory Shear (MAOS) Regime <i>Hyeon Yong SONG (Pusan National University, Korea)</i>	[15:50-16:10] [ORG6_050] Chiral Separation of Propeller-like Particle in External Field <i>Masato MAKINO (Yamagata University, Japan)</i>	[15:50-16:10] [ORG11_157] Large Amplitude Oscillatory Shear behavior at Air-Water Interface <i>Badri VISHAL (Indian Institute of Technology Guwahati, India)</i>	[16:10-16:30] [ORG4_131] Thermodynamic Instability of Polymeric Liquids in Large-Amplitude Oscillatory Shear Flow from Corotational Maxwell Fluid <i>Chaimongkol SAENGOW (Queen's University, Canada)</i>	[15:50-16:10] [ORS1_213] 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_247] Impact of Side Chain Engineering and Molecular Weight Control of Polymer Acceptors in Morphology and Performance of All-Polymer Solar Cells <i>Bumjoon KIM (Korean Advanced Institute of Science and Technology (KAIST), Korea)</i>
16:20-16:40	[ORG3_162] Study on Thermo-Thickening Behavior of Chitosan-graft-polyacrylamide Aqueous Solution <i>Yonggang SHANGGUAN (Zhejiang University, China)</i>	[16:10-16:30] [ORG6_058] Tuning Nanoparticle Suspension Rheology for 3D Printing of Silica-Titania Glass <i>Nikola DUDUKOVIC (Lawrence Livermore National Laboratory, USA)</i>	[16:10-16:30] [ORG11_189] 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>	[16:30-16:50] [ORG4_195] 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_307] 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_254] Conjugated Polymer Composites for Energy and Signal Conversion Devices <i>Felix Surjojo KIM (Chung-Ang University, Korea)</i>
16:40-17:00	[ORG3_092] 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_001] Ageing Behaviour and Microstructure of Smectic Clay Gels <i>Yee-Kwong LEONG (The University of Western Australia, Australia)</i>	[16:30-16:50] [ORG11_192] General Application of Fixed Point Iteration Algorithm to Linear Viscoelastic Identification <i>Jungheung LEE (Kyungpook National University, Korea)</i>	[16:50-17:10] 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_281] Boosting the Efficiency in Perovskite Light-emitting Diodes <i>Tae-Woo LEE (Seoul National University, Korea)</i>	[16:30-16:50] [ORS2_056] From the Viewpoint of Crystal Structure on the Yielding Behavior of Wax-decane Gel <i>Shangping HAN (China University of Petroleum, Beijing, China)</i>
17:00-18:30	Poster Session I					

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June 12 (Tuesday)						
8:30-9:00	Registration					
9:00-10:00	[PL3] Recent Progress of Rheo-optical Studies on Polymeric Systems <i>Chair: Yuichi MASUBUCHI (Osaka University, Japan)</i>					
10:00-11:00	[PL4] Connecting Rheology to the Nanoscale Structure of Block Copolymer Solution based Nanocomposites <i>Chair: Gerald FULLER (Carnegie Mellon University, USA)</i>					
11:00-11:30	[The 2nd Walters Prize Winner - Keynote Talk] Modeling Interfaces and Particles in Viscoelastic Fluids <i>Chair: Ian FRIGAARD (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						
13:00-13:20	[13:00-13:30] [KLG3_112] A Novel Low-field RheoNMR Combination for the Study of Soft Materials <i>Manfred WILHELM (Karlsruhe Institute of Technology (KIT), Germany)</i>	[13:00-13:30] [KLG6_124] Wall-bounded Flow of Colloidal Suspensions <i>Jaao MAIA (Case Western Reserve University, USA)</i>	[13:00-13:30] [KLS3_037] Recent Developments in Nonlinear Dynamics and Stability in the Film Blowing Processes of Various Polyethylenes <i>Jae Chun HYUN (Korea University, Korea)</i>	[13:00-13:30] [KLG4_180] Non-linear Dynamics of Macromolecular Solutions in Microfluidics <i>Xue-Feng YUAN (Guangzhou University, China)</i>	[13:00-13:30] [KLG1_261] Clinical Analysis of Past Work to New Solid Conveying Theory <i>Kun Sup HYUN (Polymer Processing Institute, USA)</i>	[13:00-13:30] [KLS2_123] Organic Photovoltaic Materials for Next Generation Green Energy Sources <i>Han Young WOO (Korea University, Korea)</i>
13:20-13:40						
13:40-14:00	[13:30-13:50] [ORG3_154] Viscoelasticity and Glass Transition Temperatures of Series of Model Poly(alkylstyrene)s <i>Atsushi TAKAMO (Nagoya University, Japan)</i>	[13:30-13:50] [ORG6_098] Macroscopic Flows of Dense Suspensions in Wide-gap Couette Cells—Migration and Shear Thickening <i>Fyohel SETO (Kyoto University, Japan)</i>	[13:30-14:00] [KLS3_249] Rheology and Adhesion of Human Cell Monolayers <i>Gerald FULLER (Stanford University, USA)</i>	[13:30-13:50] [ORG4_188] Numerical Study on the Dynamic of Elliptic Janus Magnetic Particles <i>Tae Gon KANG (Korea Aerospace University, Korea)</i>	[13:30-14:00] [KLG1_088] Analysis of Thin-film Formation Flows for Coating Processes <i>Jaewook NAM (Seoul National University, Korea)</i>	[13:30-14:00] [KLS2_275] Morphological Control of Polymeric Films on Liquid Substrates <i>Jung-Yong LEE (Korean Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:00-14:20	[13:50-14:10] [ORG3_209] Viscoelastic Relaxation of Transient Networks in Polymeric Matrix <i>Takuya KATASHIMA (Osaka University, Japan)</i>	[13:50-14:10] [ORG6_132] Flow Analysis of Polyelectrolyte Suspensions in Microchannels with Polymer Brush Layer <i>Myung-Suk CHUIN (Korea Institute of Science and Technology (KIST), Korea)</i>	[14:00-14:30] [KLS3_029] Use of Dielectric Method in Rheological Investigation of Softmatters <i>Hiroshi WATANABE (Kyoto University, Japan)</i>	[13:50-14:10] [ORG4_081] 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_051] Relationship between Replication of Microstructure on Rubber and Rheological Properties <i>Chihiro KANEKO (Yamagata University, Japan)</i>	[ORS2_260] Polymorphism Control of Polymer Coated Gold Nanocrystals <i>Hongseok YUN (Korean Advanced Institute of Science and Technology (KAIST), Korea)</i>
14:20-14:40	[14:10-14:30] [ORG3_141] Entanglements in Binary Polymer Blends: Insights from Molecular Simulations <i>Saishin K. SUKUMARAN (Yamagata University, Japan)</i>	[14:10-14:30] [ORG6_272] Micro-Gap Flow Evaluation of Electro-Rheological Nano-Suspension <i>Katsurumi TANAKA (Kyoto Institute of Technology, Japan)</i>		[14:10-14:30] [ORG4_168] Resolving Scaling Laws of Polymer Melts in Molecular Simulations <i>Kyota MIWATANI (Kindai University, Japan)</i>	[ORG1_101] Thermal and Viscoelastic Properties of CFRTP with Reactive Process <i>Takashi KUROSE (Yamagata University, Japan)</i>	[ORS2_252] 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_130] Understanding the Role of Localization and Distribution of Different Types of Nanoclays on the Microstructure of Compatibilized PLAP/PS Blends with Nonlinear Rheological Analysis <i>Reza SALEHIYAN (Council for Scientific and Industrial Research, South Africa)</i>	[14:30-14:50] [ORG6_234] 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] [KLS3_011] Boger Fluids, Pressure-drops and Contraction Flows - Some Recent Advances in Rheological Predictive Modelling <i>M. F. WEBSTER (Swansea University, United Kingdom)</i>	[14:30-14:50] [ORG4_036] 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_065] 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>	
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						
15:20-15:40	[ORG3_119] Rheological Behavior of Partially Melted High-Density Polyethylene near Melting Point <i>Takashi UNEYAMA (Kanazawa University, Japan)</i>	[ORG2_004] Viscoelastic Flow Around Microfluidic Cylinders with High Aspect Ratios and Low Blockage Ratios <i>Simon HAWARD (Okinawa Institute of Science and Technology Graduate University, Japan)</i>	[15:20-15:50] [KLS3_097] LAOS, Fractional Calculus and Failure of Food Gels <i>Gareth MCKINLEY (MIT, USA)</i>	[15:20-15:50] [KLG3_008] Microstructure, Rheology, and Flow Instability of Wormlike Micellar Solutions under Spatial Confinement and Flow Conditions <i>Amy SHEN (Okinawa Institute of Science and Technology Graduate University, Japan)</i>	[ORG8_280] Effect of oil Hydrophobicity on Adsorption and Rheology Protein Adsorption Layers at Oil-water Interfaces <i>Peter FISCHER (ETH Zurich, Switzerland)</i>	[ORG9_103] Development of Observation Technique for Suspension with Flow Focusing <i>Manabu KATO (Tsuyama College, Japan)</i>
15:40-16:00	[ORG3_187] Extrusion Foaming with Thermal Expandable Microcapsules Depending on Rheological Property of Base Polymer and Processing Condition <i>Shota TAKIGUCHI (Yamagata University, Japan)</i>	[ORG2_177] Gear-Shaped Micromixer with Inertio-Elastic Flow Instability <i>Sun Ok HONG (Ajou University, Korea)</i>			[ORG8_133] Processable High Internal Phase Pickering Emulsions <i>Siyoung CHOI (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	[ORG9_214] 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_173] Baking Property of Pure Rice Batter Depending on Variety of Rice <i>Hiroko YANO (Yamagata University, Japan)</i>	[ORG2_067] Vortex Deformation and Lock-on in a Two-Dimensional Turbulent Flow of Polymer Solutions <i>Ruri HIDEIMA (Kobe University, Japan)</i>	[15:50-16:20] [KLS3_108] Flow of Particulate Fluids <i>Kyung Hyun AHN (Seoul National University, Korea)</i>	[15:50-16:20] [KLG7_076] Self-Assembly and Properties of Block Copolymers: Molecular Dynamic Simulations <i>Won Bo LEE (Seoul National University, Korea)</i>	[ORG8_074] A Fractal Model for the Viscosity of Waxy Crude Oil <i>Mengran SUN (China University of Petroleum-Beijing, China)</i>	[ORG9_041] Hysteresis Loop Test for Complex Fluids with Yield-Like Behavior <i>Yasunori SATO (Nagaoka University of Technology, Japan)</i>
16:20-16:40	[ORG3_232] 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_175] Shape Analysis of Oblate Particles Utilizing a Cross-slot Microchannel <i>Bookun KIM (Ajou University, Korea)</i>		[ORG7_127] Rheology of Cholesteric Blue Phase I <i>Shuji FUJII (Hokkaido University, Japan)</i>	[ORG8_084] Study on the Adsorption of Wax Crystals at Oil-water Interface based on the Interfacial Rheology <i>Qianli MA (China University of Petroleum, China)</i>	[ORG9_290] Employing Rheological Methods to Study Polymer Long Chain Branching <i>Tianhong CHEN (TA Instruments-Waters LLC, USA)</i>
16:40-17:00	[ORG3_054] Influence of Closed-loop conformation of the Polymer on the Interfacial Molecular Mechanisms under Shear Flow <i>Sahdam JEONG (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	[ORG2_210] Structural Analysis of Aggregate Resurrection and Breakage under Uniaxial Elongational Flow <i>Seung Hui KIM (Seoul National University, Korea)</i>		[ORG7_219] Fabrication of Regenerated Silk Fibroin Microspheres in Microfluidic Chips <i>Yang CHEN (National University of Defense Technology, China)</i>	[ORG8_064] 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_049] 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 (Tentative)

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>	
10:00-10:10	Break (10 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			
10:10-10:40	[KLG2_241] The Sedimentation of Particle Suspensions in Viscoelastic Fluids with and without Applied Shear <i>Eric S. G. SHAQFEH (Stanford University, USA)</i>	[KLG10_089] Role of Protein-Protein Interactions in Non-Linear Rheometry of Dense Solutions of Monoclonal Antibodies <i>Alfredo LANZARO (Lund University, Sweden)</i>	[KLG5_021] Nonlinear Elasticity and Internal Fracture of Double Network Hydrogels Characterized by Multiaxial Stretching <i>Kenji URAYAMA (Kyoto Institute of Technology, Japan)</i>
10:40-11:00	[ORG2_057] Hydrodynamic Interaction of Particles in a Viscoplastic Fluid and Locality of the Stress <i>Emad CHAPARIAN (University of British Columbia, Canada)</i>	[ORG10_066] A Rheo-FTIR Investigation into Dynamic Conformation Changes of Regenerated Silk Fibroin in Localized Flow Field <i>Chuyun DENG (National University of Defense Technology, China)</i>	[ORG5_220] Orthogonally Double Directional Crosslinking Supramolecular Networks and their Self-healing Properties <i>Jae Woo CHUNG (Soongsil University, Korea)</i>
11:00-11:20	[ORG2_107] A Modified Brownian Dynamics Simulation of Particle Deposition on the Patterned Membrane Surface <i>Seon Yeop JUNG (Seoul National University, Korea)</i>	[ORG10_218] 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_251] Nanorheological Atomic Force Microscopy for Polymeric Materials <i>Ken NAKAJIMA (Tokyo Institute of Technology, Japan)</i>
11:20-13:00	Lunch		
13:00-18:00	Excursion		

* PRCR 2018 Program Timetable (Tentative)

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>			
10:00-10:10	Break (10 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					
10:10-10:40	[KLG_273] Liquid to Solid Transition in Soft Material Suspensions <i>Jason STOKES (The University of Queensland, Australia)</i>	[KLG11_206] Anisotropy of Photo-elastic Coefficient in Oriented Polycarbonate Film <i>Shogo KOBAYASHI (Nagoya Institute of Technology, Japan)</i>	[KLG5_117] Processing of Tough Supramolecular Hydrogels <i>Zi Liang WU (Zhejiang University, China)</i>	[KLG1_223] A Study on Sealing Micro-Fluidic Channels by Ultra-Sonic Welding <i>Yeong-Eun YOO (Korea Institute of Machinery and Materials, Korea)</i>	
10:40-11:00	[ORG6_186] Rheology of Particle-filled Polymeric Complex Systems <i>Qiang ZHENG (Zhejiang University, China)</i>	[ORG11_230] Fatigue-creep Damage Constitutive Equation for Multilayered Subgrade of Heavy Haul Railway <i>Jie ZHANG (Central South University, China)</i>	[ORG5_035] Recoverable and Self-Healing Double Network Hydrogel for 3D Printing <i>Sijun LIU (Shanghai Jiao Tong University, China)</i>	[ORG1_121] Visualization and Quantifying Analysis of Entrapped Air Bubbles during Plasticizing in the Injection Molding <i>Gyungrok RHEE (Ajou University, Korea)</i>	
11:00-11:20	[ORG6_166] Coupling Structure and Rheology of Soft Glasses under LAOS <i>Simon ROGERS (University of Illinois at Urbana-Champaign, USA)</i>	[ORG11_152] Temperature and Shear Deformation Influence for Mechanical Properties of Amorphous Polystyrene Film <i>Shigeru YAO (Fukuoka University, Japan)</i>	[ORG5_040] Rho-Kinetics of Bovine Serum Albumin in Cationic Surfactant Systems <i>Osita MNYIGIDE (Pusan National University, Korea)</i>	[ORG1_083] Analysis of Shear Stress for Graphene Exfoliation in Taylor-Couette Flow <i>Donghyuk SEO (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	
11:20-13:00	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					
13:00-13:20	(13:00-13:30) [KLG6_032] Confinement Effect on Synchronized Motions of Driven Colloids on a Path <i>Takashi TANIGUCHI (Kyoto University, Japan)</i>	(13:00-13:30) [KLG2_269] 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 Gyeol HWANG (Gyeongsang National University, Korea)</i>	(13:00-13:30) [KLG11_202] Influence of Shear Geometry Design on Shear Banding as Studied with Rheo-NMR <i>Patric GALVOSAS (Victoria University of Wellington, New Zealand)</i>	[ORG5_245] Unique Color Changing Behavior of Structural Colored Elastomers in Organic Solvent <i>Katsuhito INOMATA (Nagoya Institute of Technology, Japan)</i>	(13:00-13:30) [KLG9_087] 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_198] Relaxed Terminal Dynamics Contributing to Rheology of Filled Rubbers <i>Yihu SONG (Zhejiang University, China)</i>	
13:40-14:00	(13:30-13:50) [ORG6_096] Lateral Diffusion and Steady Shear Viscosity of GO Dispersions <i>Heon Sang LEE (Dong-A University, Korea)</i>	(13:30-13:50) [ORG2_270] 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_094] 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_020] 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_002] A New Shear-Induced Polarized Light Imaging (SPLI) Technique and its Applications <i>Joerg LAEUGER (Anton Paar Germany, Germany)</i>
14:00-14:20	(13:50-14:10) [ORG6_019] On the CST to DST Transition in Bidsperse Shear Thickening Suspensions <i>Sarah HORMOZI (Ohio University, USA)</i>	(13:50-14:10) [ORG2_023] Pressure Loss and Flow Behaviour of Gels over a Constriction <i>Alexander D. STIEFEL (German Aerospace Center (DLR), Germany)</i>	(13:50-14:10) [ORG11_045] 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_034] 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_126] Water Drops Impacting Micro/nano Silicone Grass Coatings: Oral Presentation <i>Liming WANG (Guangzhou University, China)</i>
14:20-14:40	(14:10-14:30) [ORG6_224] 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_025] Actual Rheological Properties of Time-dependent Rheometer during the Initial Shearing Stage <i>Lei CHEW (China University of Petroleum, China)</i>	(14:10-14:30) [ORG11_222] Self-standing and Shape-memorable UV-curing Epoxy for Three-dimensional (3D) Continuous-filament Printing <i>Hanna SUN (Sunkunkwan University, Korea)</i>	[ORG5_184] Study on Hydrothermal Aged of Room-temperature Cured Epoxy Adhesive <i>Hui LI (Central South University of Forestry and Technology, China)</i>	(14:10-14:30) [ORG9_030] Experimental Study on Heavy Oil's Viscosity Reduction of Nano Catalyst Assisted with Microwave Heating <i>Hanyong LI (Beijing Institute of Petrochemical Technology, China)</i>
14:40-15:00	(14:30-14:50) [ORG6_105] 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_095] 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_274] Rheology of Complex Ionic Liquids: Experimental and Computational Results <i>Sergei GLAVATSKIH (KTH Royal Institute of Technology, Sweden)</i>	[ORG5_227] Structure and Segmental Dynamics Relationship in Rubber by Dielectric Spectroscopy <i>Fengshun ZHANG (China Academy of Engineering Physics, China)</i>	(14:30-14:50) [ORG9_047] Evaluation of First Normal Stress Differences Resistant Force Acting on Inner Cylinder of Sliding Concentric Cylinder Flow Cell <i>Yukimizu SUGIHARA (Nagasaki University of Technology, Japan)</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 & Microfluidics
Chair					
15:20-15:40	(15:20-15:50) [KLG3_022] Particle-Filled Polymer Melt Manifolding: Linear-Nonlinear Dichotomy Rheology <i>Xiaorong WANG (Tongji University, China)</i>	[ORG2_263] Process Viscometry Flows of Non-Newtonian Fluids using an Agilator <i>Hae-Jin JO (Gyeongsang National University, Korea)</i>	(15:20-15:50) [KLG10_221] DNA Hydrogel based Microfluidic Device for Rapid Multiplexed Detection of Infectious Viruses <i>Sehyun SHIN (Korea University, Korea)</i>	(15:20-15:50) [KLG5_239] Fracture of Model Polymer Networks <i>Tetsuo YAMAGUCHI (Kyushu University, Japan)</i>	(15:20-15:50) [KLG8_250] Challenges in Nanofluidics - beyond Navier-Stokes at the Molecular Scale <i>Peter DAIIVIS (RMIT University, Australia)</i>
15:40-16:00		[ORG2_044] 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_144] Neutron Reflectivity Measurements for Rheological Properties of Polymer Melts Confined between Graphene Oxide Sheets <i>Jiseung KOO (Chungnam National University, Korea)</i>
16:00-16:20	(15:50-16:10) [ORG6_028] A Nanoparticles Confined Motion-based Linear Viscoelastic Model for PMMA Nanocomposites with Well-dispersed Silica Nanoparticles <i>Wei YU (Shanghai Jiao Tong University, China)</i>	[ORG2_150] Rheology of Liquid Metal GalSn Alloy at Ambient Temperature <i>Sen ZHANG (National University of Defense Technology, China)</i>	(15:50-16:10) [ORG10_017] 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_277] Effect of Varying the PEG Molecular Weight on Mechanical and Thermal Properties of Pristine PEG based Polyurethane and Polyurethane Containing Silver Nano-Particles <i>Nathana KAKKAPAO (Princess of Songkla University, Thailand)</i>	(16:10-16:30) [ORG8_149] 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_225] Study on Dynamic Rheological Properties of Modified Wood Plastic Composites by Nano CaCO3 <i>Ning YUAN (Central South University of Forestry and Technology, China)</i>	[ORG2_075] Experimental Study on Rheological Properties of Gemini Surfactant Solutions <i>Dongjie LIU (Xian Jiaotong University, China)</i>	(16:10-16:30) [ORG10_248] 3D Orientation Flow Instabilities of Inovirus DNA-fibers <i>Kyongok KANG (Forschungszentrum Juelich, Germany)</i>	(16:10-16:30) [ORG5_156] Effect of Temperature on the Payne Effect of Carbon-black Filled Rubber <i>Weiwei LUO (Xiangtan University, China)</i>	(16:30-16:50) [ORG8_151] Mesoscopic Heterogeneity in Epoxy Curing Process and Its Effect on Macroscopic Physical Properties <i>Ikka AOKI (Kyushu University, Japan)</i>
16:40-17:00	(16:30-16:50) [ORG3_111] Characterization for Evaluating the Degree of Dispersion of Polymeric Nanocomposites under Large Amplitude Oscillatory Shear Flows <i>Mingseun KIM (Pusan National University, Korea)</i>	[ORG2_266] On the Effective Slip for Non-Newtonian Flows over Corrugated Surfaces <i>Jia CHEW (Gyeongsang National University, Korea)</i>	(16:30-16:50) [ORG10_109] Enhanced Vertical Flow using Improved Rotor Design in an Open Raceway Pond for the Cultivation of Microalgae <i>Maheon RAMA (Korea Advanced Institute of Science and Technology (KAIST), Korea)</i>	(16:30-16:50) [ORG5_215] 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_073] Colloidal Probe Dynamics in Gelatin Solution during the Sol-gel Transition <i>Wotao SUN (South China University of Technology, China)</i>
17:00-17:20	(16:50-17:10) [ORG3_283] Photonic Polymers with Tunability Dramatically Enhanced by Immiscible Selective Solvents <i>Shigenori OKAMOTO (Nagoya Institute of Technology, Japan)</i>	[ORG2_204] Numerical Simulation on Shear Banding in the Confined Flow: Effect of Non-local Stress <i>Howon JIN (Seoul National University, Korea)</i>	(16:50-17:10) [ORG10_159] A Study on a Flexible Elongated Beam Swimming in Viscoelastic Fluid <i>Wenbo WU (Guangzhou University, China)</i>		(17:10-17:30) [ORG8_169] Local Conformation and Dynamics of Polysoprene 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 (Tentative)

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)			
10:00-10:10	Break (10 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				
10:10-10:30	(10:10-10:40) [KLG3_207] Stress and Dielectric Relaxation under Fast Shear Flow - a Simulation Study - <i>Jun-ichi TAKIMOTO (Yamagata University, Japan)</i>	[ORG2_072] Instabilities in Buoyant Miscible Displacement Flow of Shear-thinning Fluids in an Inclined Duct <i>Ali ETRATI (University of British Columbia, Canada)</i>	[ORG4_237] 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>	(10:10-10:40) [KLG1_303] A Novel Rheometry: the Screw Rheometer <i>Myung-Ho KIM (Hannam University, Korea)</i>
10:30-10:50		[ORG2_043] Study of Foam Flow in Model Porous Media <i>Alexis MAURAY (Universite Grenoble-Alpes, France)</i>	[ORG4_217] Magnetic Powder Orientation Modeling and Simulation for Magnetic Feedstock <i>Im Doo JUNG (Korea Institute of Materials Science, Korea)</i>	
10:50-11:10	(10:40-11:00) [ORG3_174] The Complex Steady Rheological Behavior of Poly Vinyl Alcohol Aqueous Solution <i>Miao DU (Zhejiang University, China)</i>	[ORG2_093] A New Method for Stable Core Annular Flow of Heavy Oils <i>Ian FRIGAARD (University of British Columbia, Canada)</i>	[ORG4_170] Simulation of Viscoelastic Fluid with High Order Discontinuous Galerkin Method on HopeFOAM <i>Liyang XU (National University of Defense Technology (NUDT), China)</i>	(10:40-11:00) [ORG1_059] 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>
11:10-11:30			[ORG4_129] 2D Computational Viscoelastic Flow Instability and its Dynamic Analysis <i>Youngdon KWON (Sungkyunkwan University, Korea)</i>	(11:00-11:20) [ORG1_114] Study on Color Retention of ASA under the Accelerated Weathering Condition <i>Jin Uk HA (Korea Automotive Technology Institute, Korea)</i>