

# Program of Symposium and Conference

		Room S	Room A	Room B	Room C	Room D	Room E	Room F	Room P	Exhibition		
Time		LR501	LR401	LR402	LR301	LR302	LR201	LR202	AMEC3	Studio One		
Sep. 23 <sup>rd</sup> Wed.	9:40   11:00	ISR			BRF(JP)	Liquid(JP)	Micro(JP)	ER(JP)		Exhibition		
	11:10   12:10	ISR	ISR	ISR	BRF(JP)	Liquid(JP)	Micro(JP)	Non-Newtonian (JP)				
	13:00   14:00	ISR	ISR	ISR	Bio-Rheology (JP)	Liquid(JP)	Micro(JP)	Non-Newtonian (JP)	Poster Preparation			
	14:10   15:30	Rheology Forum(JP)									Poster Session	
	15:30   16:10	Exhibition Session(JP)										
	16:10   17:00								Obligation Time Odd Num.		Exhibition	
	17:00   17:50								Obligation Time Even Num.			
	18:00   20:00								Welcome Reception			
	Sep. 24 <sup>th</sup> Thr.	9:20   10:40	ISR			Bio-Rheology (JP)	Dispersion (JP)	Inter-Face(JP)	Non-Newtonian (JP)			Exhibition
		10:50   11:40	Special Lecture (JP)								ISR Lab.-Tour*	
12:45   18:00		Excursion (Himeji Castle, Koko-en, Nadagiku Sake Brewery)										
19:10   21:05		Cruise Dinner (Concert)										
Sep. 25 <sup>th</sup> Fri.	9:40   10:40	ISR			Gel(JP)	Dispersion (JP)	Inter-Face(JP)	Non-Newtonian (JP)		Exhibition		
	10:50   11:50	ISR	ISR	Solid(JP)	Gel(JP)	Dispersion (JP)	Inter-Face(JP)	Non-Newtonian (JP)				
	13:00   14:20	ISR	ISR	Solid(JP)	Gel(JP)	Psyco (JP)	Inter-Face(JP)	Non-Newtonian (JP)				
	14:30   15:50	ISR	ISR	Solid(JP)	Functional (JP)	Psyco (JP)						

ISR: International Symposium on Rheology (Posters would be also presented in English)

JP: Presented in Japanese

\*For English Speakers only: Tour to Lab. of Prof. Suzuki's Group

Wednesday, 23rd September

Room S (LR501)

9 : 40-11 : 00 Hiroshi Suzuki (Kobe Univ.)

1S01. [Keynote1] Microfluidic tools for the manipulation and analysis of macromolecules, vesicles, capsules, and suspensions

(University of California, Berkeley) Susan J. Muller

1S02. [Keynote2] The yield and flow of strongly flocculated particulate suspensions

(The University of Melbourne) Peter Scales

11:10-12:10 Hideki Yamane (Kyoto Institute of Technology)

1S03. Dynamic Viscoelasticity of Dumbbell-shaped Polymers with High Purity

(<sup>1</sup>Nagoya University, <sup>2</sup>Kyushu University) Yuya Doi<sup>1</sup>, Atsushi Takano<sup>1</sup>, Yoshiaki Takahashi<sup>2</sup>, Yushu Matsushita<sup>1</sup>

1S04. CS/PEO Blend Based Solid Polymer Electrolyte Doping with Different Types of Lithium Salts

(<sup>1</sup>Kyoto University, <sup>2</sup>Prince of Songkla University) Natthida Rakkapao<sup>1,2</sup>, Yumi Matsumiya<sup>1</sup>, Hiroshi Watanabe<sup>1</sup>

1S05. Viscoelastic Relaxation of Rouse Chains undergoing Head-to-Head Association and Dissociation: Motional Coupling through Chemical Equilibrium

(Kyoto University) Yumi Matsumiya, Hiroshi Watanabe

13:00-14:00 Chongyoup Kim (Korea Univ.)

1S06. Evaluation of influence of nano particles on morphology of PP/PS blends by non-linear rheological analysis

(Pusan National Univ.) Reza Salehiyan, Minguen Kim, Sumkun Lee, Kyu Hyun

1S07. New Advanced Rheometric Tools for Complex Fluids Applications

(Anton Paar Germany) Joerg Laeuger

1S08. Magnetic Binary Colloidal Monolayer subject to a Cyclic External Magnetic Field and Oscillatory Shear

(<sup>1</sup>Okinawa Institute of Science and Technology, <sup>2</sup>Duke University) Ryohei Seto<sup>1</sup>,  
Johannes Schönke<sup>1</sup>, An Pham<sup>2</sup>, Benjamin B. Yellen<sup>2</sup>, Eilof Fried<sup>1</sup>

14:10-14:50 Kenji Urayama (Kyoto Institute of Technology)

Rheology Forum 1.

1S09. Rheology at the material-material interface

(Kobe University) Takashi Nishino

14:50-15:30 Toshiaki Dobashi (Gunma Univ.)

Rheology Forum 2.

1S10. Rheology in the human-material interface (Rheology on foods and cosmetics)

(Rakuno Gakuen University) Isamu Kaneda

15:30-16:10 Eiichi Takatori (TOSOH)

Exhibition Presentation

Room A (LR401)

11:10-12:10 Tadashi Kajiyi (Max-Planck Institute for Polymer Research)

1A01. Rheo-optic Stress Measurement around Vertically Aligned Bubbles under Pressure-oscillating Field

(<sup>1</sup>Nagoya Institute of Technology, <sup>2</sup>Nagaoka University of Technology) Md Walid Bin Quashem<sup>1</sup>,

Ayaka Mizukoshi<sup>1</sup>, Shuichi Iwata<sup>1</sup>, Ryo Nagumo<sup>1</sup>, Hideki Mori<sup>1</sup>, Tsutomu Takahashi<sup>2</sup>

1A02. Monitoring Microstructure by Simultaneous Rheology and FTIR

(ThermoScientific) Klaus Oldoerp, Jan Plog, Jint Nijman

1A03. Microrheological Study of Physical Gelation in Living Polymeric Networks

(<sup>1</sup>CNRS, <sup>2</sup>Illinois Institute of Technology) Tetsuharu Narita<sup>1</sup>, Tsutomu Indei<sup>2</sup>

13:00-14:00 Tsutomu Takahashi (Nagaoka Univ. Technology)

1A04. Nanoscale Viscoelastic Contact Investigated by Nano-palpatation AFM

(Tokyo Institute of Technology, Tohoku University) Ken Nakajima

1A05. High Frequency Dynamics of a Liquid Crystalline, Cyanobacterial, Sulfated Polysaccharide Studied by DLS/DWS Microrheology

(<sup>1</sup>CNRS, <sup>2</sup>Niigata University, <sup>3</sup>Japan Advanced Institute of Science and Technology) Tetsuharu Narita<sup>1</sup>,

Guylaine Ducouret<sup>1</sup>, Mika Kawai<sup>2</sup>, Tetsu Mitsumata<sup>2</sup>, Maiko K. Okajima<sup>3</sup>, Tatsuo Kaneko<sup>3</sup>

1A06. Microrheological study of associating polymers with multiple stickers having variable lifetimes in solutions and gels

(<sup>1</sup>Kyoto University, <sup>2</sup>Illinois Institute of Technology, <sup>3</sup>CNRS) Hiroto Ozaki<sup>1</sup>,

Tsutomu Indei<sup>2</sup>, Tsuyoshi Koga<sup>1</sup>, Tetsuharu Narita<sup>3</sup>

Room B (LR402)

11:10-12:10 Hidemitsu Furukawa (Yamagata Univ.)

1B01. Flow Analysis of Wormlike Micelle Aqueous Solution with Simultaneous Measurement of Stress and Polarization Imaging

(Osaka University) Naoto Oba, Tadashi Inoue

1B02. Slow Relaxation Dynamics of Tough and Self-healing Polyampholyte Hydrogels

(Hokkaido University) Sadia Nazneen Karobi, Tao Lin Sun, Takayuki Kurokawa, Feng Luo,  
Tasuku Nakajima, Takayuki Nonoyama, Jian Ping Gong

1B03. Effects of temperature and strain rate on the tensile behaviour of polyampholyte physical hydrogels

(Hokkaido University) Tao Lin Sun, Feng Luo, Sadia Nazneen Karobi, Takayuki Kurokawa,  
Tasuku Nakajima, Jian Ping Gong

13:00-14:00 Tadashi Unoue (Osaka Univ.)

1B04. 3D Gel Printing and Gel Tribology

(Yamagata University) Hidemitsu Furukawa

1B05. Value-in-use of organic/inorganic nano-fillers in morphology and mechanical and properties of PCL nanocomposites

(<sup>1</sup>Yamagata University, <sup>2</sup>University of KwaZulu-Natal, <sup>3</sup>CSIR Natural Resources & the Environment)

Magdi E. Gibril<sup>1</sup>, Bruce Sithole<sup>2,3</sup>, Hidemitsu Furukawa<sup>1</sup>

1B06. A simple model for the simulation of pantographing

(ANSYS Belgium s.a.) Benoit Debbaut

Room C (LR301)

9:40-11:40 Toru Maruyama(Kyushu Univ.)

Bio-Rheology Research Forum 1.

1C01. Instantaneous wave-free ratio; current and future perspective

(Kinki University) Yoshitaka Iwanaga, Tomoyuki Ikeda, Masafumi Ueno, Shunichi Miyazaki

Bio-Rheology Research Forum 2.

1C02. Non-invasive FFR<sub>CT</sub> derived from coronary CT angiography

(Okayama University) Toru Miyoshi

11:40-12:10 Taiji Adachi (Kyoto Univ.)

Oka Syoten Special Award Lecture

1C03. Dr. Syoten Oka and Electro-Biorheology

(Kobayasi Institute of Physical Research) Eiichi Fukada

13:00-14:00 Yasuyuki Maki (Gunma Univ.)

1C04. Construction of engineered vascular networks in multichannel collagen gel

(Hokkaido University) Kazuya Furusawa, Akimasa Fukui, Naoki Sasaki

1C05. Irreversible change in bone structure and mechanical properties brought about by stress relaxation experiments

(Hokkaido University) Naoki Sasaki, Kazuya Haraguchi, Kazuya Furusawa

1C06. Effect of annealing on the properties of DNA-cationic surfactant complex film

(Hokkaido University) Takeshi Yonekura, Kazuya Furusawa, Naoki Sasaki

Room D (LR302)

10:00-11:00 Yumi Matsumiya (Kyoto Univ.)

1D01. Rheology of Gelatin / Ionic Liquid Solutions

(Kyoto University) Arisa Okamoto, Jun-ichi Horinaka, Toshikazu Takigawa

1D02. Viscoelastic Properties of Polyelectrolytes in Ionic Liquids

(Osaka University) Atsushi Matsumoto, Tadashi Inoue

1D03. The relationship between molecular mobility and conductivity of carbonate oligomer-based electrolytes with various chemical structures

(Kyusyu Univ.) Katsuhiko Kaetsu, Tomoyuki Ohishi, Tomoyasu Hirai, Yuji Higaki,  
Ken Kojio, Atsushi Takahara

11:10-12:10 Toshikazu Takigawa (Kyoto Univ.)

1D04. Thermo-mechanical behavior of Poly2-vinylpyridine/Polyvinylphenol blends : molecular weight dependence

(Osaka University) Ayaka Yasue, Osamu Urakawa, Tadashi Inoue

1D05. Effect of Intermolecular Hydrogen Bonding on Terminal Relaxation of Polyurethane

(Osaka University) Osamu Yamane, Osamu Urakawa, Tadashi Inoue

1D06. Viscosity and Diffusion Behavior in Concentrated Aqueous Solutions of an Amphiphilic Alternating Copolymer

(Osaka University) Yasuho Ohtani, Takahiro Sato

13:00-14:00 Osamu Urakawa (Osaka Univ.)

1D07. Damping behavior of melts of polyisobutylene in shear

(Kyoto University) Fei Teng, Takumi Kabeya, Katsuyuki Yoshikawa, Jun-ichi Horinaka, Toshikazu Takigawa

1D08. Rotation of polymer chains and dielectric relaxation under fast shear flow

(Yamagata University) Jun-ichi Takimoto, Sathish K. Sukumaran, Kenyu Niitsuma, Haruka Katagiri

1D09. Rheological properties of transient network formed in permanent network

(<sup>1</sup>Osaka University, <sup>2</sup>The University of Tokyo) Takuya Katashima<sup>1</sup>, Takamasa Sakai<sup>2</sup>, Tadashi Inoue<sup>1</sup>

Room E (LR201)

9:40-11:00 Yuichi Masubuchi (Nagoya Univ.)

1E01. Measurement of surface viscosity of Langmuir film by Disk-type electromagnetically spinning method

(The University of Tokyo) Taichi Hirano, Keiji Sakai

1E02. Observation of vibration of micro droplet on plate

(The University of Tokyo) Shujiro Mitani, Touko Hamaguchi, Yuji Shimokawa, Keiji Sakai

1E03. Observation of Mechanical properties of Microgel Dispersion by Disk-EMS Visometer

(The University of Tokyo) Yusuke Matsuura, Yuji Shimokawa, Taichi Hirano, Keiji Sakai

1E04. Analysis of melt spinning process by using multi-scale simulation method

(Kyoto University) Takeshi Sato, Takashi Taniguchi

11:10-12:10 Keiji Sakai (Univ. of Tokyo)

1E05. Dissipative particle dynamics simulation for Janus nanoparticles solution in nanotube

~Self-assembled structure under static and shear conditions~

(Kinki University) Yusei Kobayashi, Noriyoshi Arai

1E06. Flow Behavior of PEO and HPC Solutions in Micro Abrupt Contraction-Expansion Channels

(Kobe University) Taiki Oka, Ruri Hidema, Hiroshi Suzuki, Yoshiyuki Komoda

1E07. Microrheological investigation of the viscoelasticity change of polymer solution coating during drying

(Kobe University) Yudai Tanaka, Yoshiyuki Komoda, Hiroshi Suzuki, Ruri Hidema

13:00-14:00 Takashi Taniguchi(Kyoto Univ.)

1E08. Dielectric relaxation under shear obtained via multi-chain slip-spring model

(Nagoya University) Yuichi Masubuchi

1E09. A molecular explanation for strain hardening of long chain branch polymers

(Nagoya University) Yuichi Masubuchi

1E10. A molecular level explanation of strain hardening in bidisperse polymers

(Nagoya University) Yuichi Masubuchi

Room F (LR202)

10:00-10:40 Jun-ichi Takimoto (Yamagata Univ.)

1F01. Simultaneous observations of particle behavior and flow behavior of electro-rheological nano-suspensions

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>Tohoku University) Seiya Robson<sup>1</sup>, Katsufumi Tanaka<sup>1</sup>,  
Midori Takasaki<sup>1</sup>, Haruki Kobayashi<sup>1</sup>, Masami Nakano<sup>2</sup>, Atsushi Totuka<sup>2</sup>

1F02. Dielectric Evaluation of Liquid Crystals and Nano-Suspensions using Microelectrodes

(Kyoto Institute of Technology) Katsufumi Tanaka, Yuichiro Tanabe, Masayoshi Uchimura, Midori Takasaki, Haruki Kobayashi

1F03. Basic experiments on the rheological characterization of highly viscous fluid

(Shibaura Institute of Technology) Mika Yamamoto, Yoshihide Suwa

11:10-12:10 Yumiko Yoshitake (Nagaoka Univ.Technology)

1F04. Viscometry study of short back extrusion method on Newtonian and power-law and Hershell-Bulkley fluid

(Aohata) Takayoshi Hoshino

1F05. Derivation Process for a Non-Newtonian Viscosity Equation and Estimation of Constants

(The University of Tokyo) Shuichi Aiba, Kiyoshi Toda, Hisamoto Furuse

1F06. Flow Properties of Several Types of Surfactant Solutions in Capillary Flows

(<sup>1</sup>Niigata University, <sup>2</sup>Niigata College of Technology) Akiomi Ushida<sup>1</sup>, Akira Ichijo<sup>1</sup>, Tomiichi Hasegawa<sup>2</sup>, Takatsune Narumi<sup>1</sup>

13:00-14:00 Takashi Horie (Kobe Univ.)

1F07. Bulge structures of viscoelastic surfactant solutions in a cavity

(Kobe University) Hideki Sato, Ruri Hidema, Hiroshi Suzuki, Yoshiyuki Komoda

1F08. Flow behavior of concentrated particle suspensions in horizontal concentric cylinders

(<sup>1</sup>National Institute of Technology, Nara College, <sup>2</sup>Osaka University) Takashi Koshiba<sup>1</sup>, Takehiro Yamamoto<sup>2</sup>

1F09. Influence of last flow conditions in preshear flows on transient responses of concentrated suspensions after shear reversal

(Niigata University) Kosumo Nagasaka, Takatsune Narumi, Akiomi Ushida, Ryuichi Kayaba



P01. Viscoelastic properties of ring-shaped polyisoprenes with high molecular weight and high purity

(<sup>1</sup>Nagoya University, <sup>2</sup>Kyusyu University) Atsushi Takano<sup>1</sup>, Yousuke Tsuji<sup>1</sup>, Yuya Doi<sup>1</sup>, Yushu Matsushita<sup>1</sup>, Yoshiaki Takanashi<sup>2</sup>

P02. The influence of side chain crystalline block copolymer to the olefin crystal

(Fukuoka University) Yuriko Tateishi, Yusuke Hasebe, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao

P03. Physical ageing study in polystyrene and miscible polymer: effect of thermal ageing on the decrease in enthalpy

(University of Fukui) Yuki Uchino, Yutaka Tanaka

P04. Nonlinear Viscoelastic Responses of Glassy Polycarbonate to Shear Deformation Histories including Reversal of Deformation

(Osaka City University) Satoshi Miyamoto, Shin'ya Yoshioka

P05. Shear thickening and fiber structure of ternary mixtures of water/organic solvent/salt

(<sup>1</sup>Ritsumeikan University, <sup>2</sup>Doshisha University) Hiroki Nakamura<sup>1</sup>, Koichiro Sadakane<sup>2</sup>, Naoki Tsuduki<sup>1</sup>, Yoshinori Takikawa<sup>1</sup>, Koji Fukao<sup>1</sup>

P06. Characteristics of averaged shear rate of mixing for high shear-thinning fluid in a stirred vessel

(Kobe University) Kazuto Tsuda, Hayato Masuda, Takahumi Horie, Naoto Ohmura

P07. Study on rising flow of suspensions driven by capillary action

(Nagaoka University of Technology) Ayaka Matsumura, Yumiko Yoshitake, Tsutomu Takahashi

P08. Properties in aqueous solution of a series of cationic surfactants with hydroxy groups

(Nagoya Institute of Technology) Yuki Ariyasu, Yasushi Yamamoto, Akihiro Yoshino, Keiji Taga

P09. Synthesis of side chain crystalline block copolymer with various number of hydroxyl group and their function

(Fukuoka University) Yuga Miho, Fumiharu Yamazaki, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao

P10. Synthesis of side chain crystalline block copolymer with temperature functional group and their function

(Fukuoka University) Sae Kubota, Fumiharu Yamazaki, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao

P11. Surface modification function of side chain crystalline block co-polymer with carbonyl group in the functional unit

(Fukuoka University) Keishi Ootaguro, Hideaki Obuchi, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao

P12. Extensional rheometric evaluation of foaming and foam stability with the capillary breakup extensional rheometer

(Thermo Fisher Scientific Japan) Kohei Kosaka

P13. Rheology and Structure under Shear Flow of Lyotropic Chromonic Liquid Crystal

(MCHC R&D Synergy Center) Takuya Suzuki, Yuko Kojima

P14. Evaluation of Dielectric Properties for Electro-Rheological Nano-Suspensions based on Titanium Dioxide Nano-Particles

(Kyoto Institute of Technology) Hiroki Komatsu, Masayoshi Uchimura,

Katsufumi Tanaka, Midori Takasaki, Haruki Kobayashi

P15. Microstructure of Electro-Rheological Nano-Suspensions based on Titanium Dioxide Nano-Particles

(Kyoto Institute of Technology) Minori Nishimoto, Seiya Robson, Katsufumi Tanaka, Midori Takasaki, Haruki Kobayashi

P16. Temperature dependence of TR fluid function using a tri-block copolymer

(Fukuoka University) Yuri Kanazawa, Yusuke Hasabe, Kouki Hirakawa, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao

P17. Synthesis of heat resistant side chain block copolymer and TR fluid function

(Fukuoka University) Koki Fukaya, Yusuke Hasebe, Yuri Kanazawa, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao

P18. Method of extraction of polyisoprene obtained from milk bush and their properties

(<sup>1</sup>University of the Ryukyus, <sup>2</sup>Kyushu University, <sup>3</sup>Nagoya University) Keiko Nakasone<sup>1</sup>,

P19. Biaxial Stretching of Double-Network Gels

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>Hokkaido University) Akira Tanaka<sup>1</sup>, Kenji Urayama<sup>1</sup>,  
Takahiro Matsuda<sup>2</sup>, Tasuku Nakajima<sup>2</sup>, Jian Ping Gong<sup>2</sup>

P20. Rheological behavior of polyacrylonitrile solutions near the sol-gel transition

(University of Fukui) Takeru Fujima, Yutaka Tanaka

P21. Moisture effect on mechanical strength of hydrophilic polymer network by neutron scattering

(CROSS Tokai, \*JAEA) Taiki Tominaga<sup>1</sup>, Shinichi Takata<sup>2</sup>, Takeshi Yamada<sup>1</sup>, Masato Matsuura<sup>1</sup>, Kaoru Shibata<sup>2</sup>

P22. Finite Deformation Behavior of Silicone Elastomers with Large Cross-link Domains

(Kyoto Institute of Technology) Hiroki Koike, Kenji Urayama

P23. Measurement of peel force using elastic gel as an adherent

(Yokohama National University) Yoshiki Sugizaki, Ryo Ichikawa, Yoshimi Tanaka, Atsushi Suzuki

P24. Rheological study of freeze-dried konjac gel prepared from konjac-glucomannan compounded with two natural polysaccharides

(Yamaguchi University) Yuka Okazaki, Takashi Saeki

P25. Rheological Properties on Gelation Process of Soybean Protein Mixtures

(University of Hyogo) Miki Yoshimura

P26. Effect of rice powder (flour) produced in Niigata on the rheological properties of *Gomatofu* (Sesame tofu)

(University of Niigata Prefecture) Emiko Sato

P27. Electric field effect on the dynamics of gelation induced by the contact of solutions of polyanion and multivalent cation

(<sup>1</sup>Gunma University, <sup>2</sup>Hokkaido University, <sup>3</sup>Nagasaki University) Asami Sakamoto<sup>1</sup>, Masako Wakamatsu<sup>1</sup>,  
Yasuyuki Maki<sup>1</sup>, Kazuya Furusawa<sup>2</sup>, Hisashi Ichikawa<sup>3</sup>, Takao Yamamoto<sup>1</sup>, Toshiaki Dobashi<sup>1</sup>

P28. Time dependence of viscoelastic properties of anti-cancer agent

(Fukuoka University) Makoto Takeda, Mirai Unno, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao

P29. Rheology and Coagulation Mechanism of the Animal Blood

(<sup>1</sup>DNP Fine Chemicals, <sup>2</sup>Shibaura Institute of Technology, <sup>3</sup>Tokyo Medical and Dental University) Shunsuke Shinozaki<sup>1</sup>,  
Haruna Yamaguchi<sup>1</sup>, Norio Watanabe<sup>2</sup>, Katsuhito Ohuchi<sup>3</sup>

P30. Structural Analyses of Gold Nanowires with the Worm-like Chain Model and their Rheological Properties

(Osaka Municipal Technical Research Institute) Masashi Saitoh, Yukiyasu Kashiwagi, Kimihiro Matsukawa

P31. Self-assembly of amphiphilic molecules in vesicle using dissipative particle dynamics method

(Kinki University) Yuki Yoshimoto, Noriyoshi Arai

P32. Micro-tensile behavior of polymer melts

(Kyoto University) Ryotaro Hataji, Jun-ichi Horinaka, Toshikazu Takigawa

P33. A Relationship between Steady Flow Viscosity and Dynamic Viscoelasticity of Concentrated Slurries

(Toyota Central R&D Labs) Hiroshi Nakamura, Masahiko Ishii

P34. Rheological Behavior of Nanofibrillated Fiber Suspensions

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>Nisshin Kogyo, <sup>3</sup>Shinshu University) Kosuke Ueda<sup>1</sup>, Kenji Urayama<sup>1</sup>,  
Takahiko Makise<sup>2</sup>, Shigeki Inukai<sup>2</sup>, Toru Noguchi<sup>3</sup>

P35. Viscoelastic properties of tree-like networks obtained using viscous fingering phenomena

(Kyushu University) Natsumi Kitazaki, Daisuke Tatsumi

P36. Dielectric relaxation behavior of aqueous tertiary amine solution

(Tokyo University of Agriculture and Technology) Naoya Sagawa, Toshiyuki Shikata

P37. Physical Properties of composite paste based on functionalized pullulan

(Okayama University) Tomoya Watanabe, Takumi Okihara, Kenya Matsuo

P38. Dilute solution properties of phosphorylated water soluble polymer

(Okayama University) Ryota Kume, Takumi Okihara, Hiroki Okajima, Shun Watanabe

P39. Influence of self-organization process of the membrane properties of polyimide

(Fukuoka University) Naoki Nishikawa, Naoki Mizuno, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao

P40. An improved rotary-tack-meter design used to evaluate stickiness property of cosmetics

(Kao) Hiroyuki Kanai, Seiji Homma, Ryuta Tsuchiya

P41. Evaluation of spinnability for polysaccharide solutions

(<sup>1</sup>Taiyokagaku, <sup>2</sup>Nagoya University) Yasushi Ichimi<sup>1</sup>, Kenji Ohmura<sup>1</sup>, Naoya Mori<sup>1</sup>, Yuichi Masubuchi<sup>2</sup>

P42. Primer Effect on Adhesion between Isotactic Polypropylene/Cyanoacrylate adhesive

(Kobe University) Yuta Nakanishi, Chizuru Hongo, Takashi Nishino

P43. Cryogenic mechanical properties of biobased polyesters

(Kobe University) Sunglin Lee, Chizuru Hongo, Takashi Nishino

P44. High functional single nano silver particulate cellulose nanofiber composite

(Kobe University) Hiroaki Ito, Chizuru Hongo, Takashi Nishino

P45. Conformation and dynamics of cellulose, amylose and their derivatives in solution

(Osaka University) XinYue Jiang, Ken Terao, Tadashi Inoue

P46. Biaxial Stretching of Silica-Reinforced Elastomers

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>Bridgestone Corporation) Mai Thanh Tam<sup>1</sup>, Yoshihiro Morishita<sup>1,2</sup>,  
Katsuhiko Tsunoda<sup>2</sup>, Kenji Urayama<sup>1</sup>

P47. Preparation and physical properties of polypropylene composites with hydrophobized cellulose powder by palm oil

(Chungbuk National University) Feng Tang, Dae Su Kim

P48. Physical properties of a bio-epoxy system composed of epoxidized soybean oil and an aliphatic amine

(Chungbuk National University) Hyohee Seok, Dae Su Kim

P49. Polymerization kinetics and physical properties of a bio-polyurethane system with castor oil

(Chungbuk National University) Kihoon You, Dae Su Kim

P50. Preparation and physical properties of polypropylene composites with hydrophobized wood flour by soybean oil

(Chungbuk National University) Jongbin Baek, Dae Su Kim

P51. Inertial effects in viscoelastic materials and their implication in microrheology

(<sup>1</sup>Illinois Institute of Technology, <sup>2</sup>University of Chicago, <sup>3</sup>Texas Tech University) Tsutomu Indei<sup>1</sup>,  
Jay D. Schieber<sup>1</sup>, Andrés Córdoba<sup>2</sup>, Mir Karim<sup>3</sup>, Rajesh Khare<sup>3</sup>

P52. Rheological behavior of PVA/CuNW Suspension with or Without Silica under the SAOS and LAOS Flow

(Pusan National University) Seung Hak Lee, Hyeong Yong Song, Kyu Hyun

P53. Identifying Characteristic Physiological Patterns of Mentally Disease Patients Using Analysis of Plethysmograms, and its Applications

(<sup>1</sup>Osaka University, <sup>2</sup>Chaos Technology Research Laboratory) Emako Miyoshi<sup>1</sup>, Yuyu Hu<sup>1</sup>, Mayumi Oyama-Higa<sup>2</sup>

P54. Nonlinear Analysis of EEG and Pulse Waves & the Changes of Two Signals with Music Stimulation

(<sup>1</sup>Osaka University, <sup>2</sup>Chaos Technology Research Laboratory) Yuyu Hu<sup>1</sup>, Mayumi Oyama-Higa<sup>2</sup>, Emako Miyoshi<sup>1</sup>

Thursday, 24<sup>th</sup> September

Room S (LR501)

9:20-10:40 Yoshiyuki Komoda (Kobe Univ.)

2S01. [Keynote3] Entanglement Dynamics of Flexible Polymers: Recent Findings.

(Kyoto University) Hiroshi Watanabe

2S02. [Keynote4] Contact line motion of polymeric fluids

(Korea University) Chongyoup Kim

10:50-11:40 Takashi Nishino (Kobe Univ.)

2S03. [Special Lecture] Identity of KOBE Sweets

(Kohnan University) Junji Nishimura

Room C (LR301)

9:20-10:40 Kazuya Furusama (Hokkaido Univ.)

2C01. An analysis of white thrombus formation process induced by a contact of plasma and calcium chloride solution

(Gunma University) Toshiaki Dobashi, Natsumi Shida, Ryuta Kurasawa, Yasuyuki Maki and Takao Yamamoto

2C02. Structure and rheology of a mixed gel of polysaccharides

(Gunma University) Sho Yasuraoka, Kazushi Toriba, Hiroyuki Yoshida, Yasuyuki Maki, Toshiaki Dobashi

2C03. Effects of polysaccharides on the physicochemical property of leavened solid food and bolus

(Iwate University) Misaki Oonami, Makoto Miura

2C04. Thrombus detection in in-vitro blood circulation using dielectric properties of blood

(<sup>1</sup>Chiba University, <sup>2</sup>National College of Technology, Kisarazu College, <sup>3</sup>National Institute of Advanced Industrial Science and Technology)

Dung NguyenHuu<sup>1</sup>, Sapkota Achyut<sup>2</sup>, Daisuke Kikuchi<sup>1</sup>, Osamu Maruyama<sup>3</sup>, Masahiro Takei<sup>1</sup>

Room D (LR302)

9:20-10:40 Toshiyuki Shikata (Tokyo Univ. Agriculture and Technology)

2D01. Theory for separation of chiral particles under rotational electric field

(<sup>1</sup>Yamagata University, <sup>2</sup>Beijing University of Aeronautics and Astronautics) Masato Makino<sup>1</sup>, Masao Doi<sup>2</sup>

2D02. Particle Dispersion/Aggregation Behavior of Fine Particles in a Elongational Flow

(<sup>1</sup>Kobe City College of Technology, <sup>2</sup>Kobe University) Koji Masuda<sup>1</sup>, Hiroshi Suzuki<sup>2</sup>, Yoshiyuki Komoda<sup>2</sup>, Ruri Hidema<sup>2</sup>

2D03. Effect of Chemical Composition of Clay on Rheological Properties of Smectite Clay Dispersions

(<sup>1</sup>Gifu University, <sup>2</sup>Kunimine Industries) Mayu Funabashi<sup>1</sup>, Hiroshi Kimura<sup>1</sup>, Akira Tsuchida<sup>1</sup>, Keiichi Kurosaka<sup>2</sup>

2D04. Dielectric relaxation and viscoelasticity of system of lecithin reverse wormlike micelles

(Osaka University) Ryouma Hashimoto, Tadashi Inoue

Room E (LR201)

9:20-10:40 Hiroshi Morita (AIST)

2E01. Adhesion Strength and Possibility of Chain Mixing by Thermal Annealing of Polymer Brushes

(Kogakuin University) Motoyasu Kobayashi, Yujin Aoki

2E02. Local Molecular Dynamics around Ionic Aggregate in Ionomer Studied by Position-Selective Spin Probing

(Gifu University) Yohei Miwa, Hajime Furukawa, Tomoyo Kondo, Shoichi Kutsumizu

2E03. Adsorption Kinetics of Ultrafine bubbles on Polymer Film Studied by Optical Reflectivity

(<sup>1</sup>Kyushu University, <sup>2</sup>West Nippon Expressway) Atsuomi Shundo<sup>1</sup>, Koichiro Hori<sup>1</sup>, Hisao Matsuno<sup>1</sup>,  
Yasuo Fukunaga<sup>2</sup>, Keiji Tanaka<sup>1</sup>

2E04. Extended Measuring Capabilities for the Extensional Rheometer HAAKE CaBER1

(Thermo Fisher Scientific) Jint Nijman, Cornelia Küchenmeister, Klaus Oldörp

Room F (LR202)

9:20-10:40 Shinji Tamano (Nagoya Institute of Technology)

2F01. Stress-relaxation behavior of flow cessation from shear-banding in wormlike micellar solutions

(Nagaoka University of Technology) Daichi Nemoto, Masatoshi Ito, Yumiko Yoshitake, Tsutomu Takahashi

2F02. Three-phase contact line of a droplet on the vertically vibrating plate in measurement of dynamic surface tension

(<sup>1</sup>Nagoya Institute of Technology, <sup>2</sup>Nagaoka University of Technology) Satoko Yamauchi<sup>1</sup>,

Shuichi Iwata<sup>1</sup>, Hideki Mori<sup>1</sup>, Ryo Nagumo<sup>1</sup>, Yumiko Yoshitake<sup>2</sup>

2F03. Influence of particulate surface treatments on leveling and adhesion characteristics of silver pastes

(<sup>1</sup>Niigata University, <sup>2</sup>NAMICS) Akiyuki Wakasugi<sup>1</sup>, Takatsune Narumi<sup>1</sup>, Noriyuki Sakai<sup>1</sup>, Ryutaro Takahashi<sup>2</sup>, Akiomi Ushida<sup>1</sup>

2F04. The effective Reynolds number and flow characteristics of Taylor-Couette flow with a Carreau model fluid

(<sup>1</sup>Kobe University, <sup>2</sup>Warsaw University of Technology) Hayato Masuda<sup>1</sup>, Takafumi Horie<sup>1</sup>, Robert Hubacz<sup>2</sup>, Naoto Ohmura<sup>1</sup>



Friday, 25<sup>th</sup> September

Room S (LR501)

9:40-10:40 Ruri Hidema (Kobe Univ.)

3S01. [Keynote5] Recent progress in modelling, simulations and experiments of transport phenomena in the patient-specific cardiovascular geometries

(Delft University of Technology) Sasa Kenjeres

3S02. [Invited] Validity of rheological scaling laws for gels

(Nanyang Technological University) Lin Li

10:50-11:50 Miki Yoshimura (Univ. Hyogo)

3S03. Stress-Strain Relationship of a Cooked Japanese Rice in Squeezing Plates

(Kobe University) Efrina, Yoshiyuki Komoda, Hiroshi Suzuki, Ruri Hidema

3S04. Rheological study of cellulose in BmimCl solution by pre-heating treatment

(Kyushu University) Zhe Xu, Yoshiaki Takahashi, Akihiko Takada

3S05. Biorheology based Genic Modified Agromomy may mitigate radioactive ecosystems

(SCOTTYNCC) John Ronczka

13:00-14:20 Yoshiaki Takahashi (Kyushu Univ.)

3S06. Multiscale simulations of polymer melt flow in an abrupt contraction and expansion channel

(Kyoto University) Takashi Taniguchi, Kohei Harada

3S07. Application of Fourier Transform to Linear Viscoelastic Identification

(Kyungpook National University) Kwang Soo Cho, Jung-Eun Bae, Sang Hun Lee

3S08. Structure of entanglements in binary blends: Mixing rules for blends of flexible and stiff polymers

(Yamagata University) Sathish K. Sukumaran, Yuta Suzuki, Atsushi Higuchi, Junichi Takimoto

3S09. Dynamics of Polymer Melts and Polymer Blends with Hydrogen Bonding Interaction: Case that Time-Temperature Superposition Holds

(Osaka University) Osamu Urakawa, Osamu Yamane, Aya Yasue, Tadashi Inoue

14:30-15:50 Lin Li (Nanyang Technological Univ.)

3S10. Rheological Observation of Kinetics and Dynamics for Physical Gelation of Hectorite Suspensions

(South China University of Technology) Weixiang Sun, Tao Wang, Haohao Huang, Xinxing Liu, Zhen Tong

3S11. Linear Viscoelasticity of Random Ionomers

(<sup>1</sup>Chinese Academy of Sciences, <sup>2</sup>The Pennsylvania State University) Quan Chen<sup>1</sup>, Zhijie Zhang<sup>1</sup>, Ralph H Colby<sup>2</sup>

3S12. Sol-gel transition and phase diagram of ionic-liquid polymer hydrogels (PILs) investigated by rheological measurements

(<sup>1</sup>CNRS, <sup>2</sup>ENS Lyon) O. Ratel<sup>1</sup>, J.C. Majesté<sup>1</sup>, C. Carrot<sup>1</sup>, C. Monnereau<sup>2</sup>

3S13. Ionic Gel Based on Multifunctional Thiol Monomer

(<sup>1</sup>Yamagata University, <sup>2</sup>Shibaura Institute of Technology) Kumkum Ahmed<sup>1</sup>, Naufumi Naga<sup>2</sup>, Hidemitsu Furukawa<sup>1</sup>

Room A (LR401)

10:50-11:50 Sasa Kenjeres (Delft Univ.Technology)

3A01. Diffusion of the Injected Viscoelastic Polymer Solution in a Channel Flow Associated with Evolution of Eddy Structure

(Tokyo University of Science) Zaiguo Fu, Takahiro Tsukahara, Yasuo Kawaguchi

3A02. Impacts of polymer/surfactant complexation on liquid physical properties, flow behaviour and spray quality through a spray nozzle

(The University of Queensland) Ruobing Wang, Gary J. Dorr, Andrew J. Hewitt, Justin J. Cooper-White

3A03. Flow Characteristics of Sodium Hyaluronate Solution in Micro Planar Abrupt Contraction-Expansion Channels

(Kobe University) Ruri Hidema, Taiki Oka, Hiroshi Suzuki, Yoshiyuki Komoda

13:00-14:20 Susan J. Muller (California Univ. Berkeley)

3A04. Water Drop Condensation on a Lubricant-Impregnated Surface (LIS)

(Max-Planck Institute for Polymer Research) Tadashi Kajiya, Frank Schellenberger, Periklis Papadopoulos

3A05. Dynamic Analysis on Apparent Viscosity Variation of Surfactant Solution. I.

Effects of Shear Rate, Temperature and Concentration

(<sup>1</sup>Xi'an Jiaotong University, <sup>2</sup>Tokyo University of Science) Na Xu<sup>1</sup>, Jinjia Wei<sup>1</sup>, Yasuo Kawaguchi<sup>2</sup>

3A06. Dynamic Analysis on Apparent Viscosity Variation of Surfactant Solution. II.

Characteristic Time, "Two Peaks" Phenomenon and Fitting Equation

(<sup>1</sup>Xi'an Jiaotong University, <sup>2</sup>Tokyo University of Science) Na Xu<sup>1</sup>, Jinjia Wei<sup>1</sup>, Yasuo Kawaguchi<sup>2</sup>

3A07. Vortices and Heat Transfer Characteristics of Viscoelastic Fluids in Serpentine Channels

(Kyoto University) Kazuya Tatsumi, Shinotsuka Naoki, Ryuichi Kimura, Kazuyoshi Nakabe

14:30-15:50 Sathish Kumar Sukumaran (Yamagata Univ.)

3A08. Highly Flexible Polymer Silver Nanocomposite Sensors for Smart Garments

(Yamagata University) Ajit Khosla, Hidemitsu Furukawa

3A09. WLF Behaviour of Shift Factors in the Physical Ageing Study of Polystyrenes near Glass Transition Temperature

(Fukui University) Yutaro Okuya, Shiho Kashiwabara, Yutaka Tanaka

3A10. Study on the Mechanism of Change in Frictional Property of Human Hair by Shampoo

(<sup>1</sup>Osaka University, <sup>2</sup>Kracie Home Products) Yoko Akiyama<sup>1</sup>, Yukako Matsue<sup>2</sup>, Tatsuya Mori<sup>1</sup>, Shigehiro Nishijima<sup>1</sup>

3A11. Effect of extension viscosity of polymer solution velocity fields in two-dimensional flows

(Kobe University) Ikumi Murao, Ruri Hidema, Hiroshi Suzuki, Yoshiyuki Komoda

Room B (LR402)

10:50-11:50 Shin'ya Yoshioka (Osaka City Univ.)

3B01. Thermal shrinkage behavior of neck drawn isotactic polypropylene

(Kanazawa University) Kana Murotani, Takashi Uneyama, Koh-hei Nitta

3B02. Anisotropy of stress-optical coefficient for glassy polymer

(Japan Advanced Institute of Science and Technology) Shogo Nobukawa, Seiki Hasunuma, Masayuki Yamaguchi

3B03. Rheo-Raman spectroscopic study of the deformation mechanism of HDPE with various molecular weights and distributions

(Kanazawa University) Takumitsu Kida, Yusuke Hiejima, Koh-hei Nitta

13:00-14:20 Koh-hei Nitta (Kanazawa Univ.)

3B04. Effects of sugar on mechanical properties of polysaccharide films

(Kyoto University) Maki Tanaka, Jun-ichi Horinaka, Toshikazu Takigawa

3B05. Dynamics of the guest molecules in stretch-oriented sPS $\delta$ -crystal

(Osaka University) Sho Akazawa, Hideo Kobayashi, Osamu Urakawa, Fumitoshi Kaneko, Tadashi Inoue

3B06. On the anomalous temperature dependence of intrinsic birefringence for polymers

(Osaka University) Yuki Okada, Tadashi Inoue

3B07. Improvement of mechanical property of poly(lactic acid) by thermal history

(Japan Advanced Institute of Science and Technology) Huang Tong, Shogo Nobukawa, Masayuki Yamaguchi

14:30-15:30 Shogo Nobukawa (Japan Advanced Institute of Science and Technology)

3B08. Measurement of the local strains of polymer foams during deformation.

(Kyoto Institute of Technology) Yukihiro Nishikawa, Jun Yamashita, Kenji Urayama

3B09. Study on environmental stress cracking properties of PE in various alcohol

(<sup>1</sup>The University of Shiga Prefecture, <sup>2</sup>Nihon Yamamura Glass) Katsuhisa Tokumitsu<sup>1</sup>, Nguyen Thihong Nhung<sup>1</sup>,  
Takashi Tanaka<sup>2</sup>, Shota Ishiguro<sup>2</sup>, Shingo Umeki<sup>2</sup>

3B10. Viscoelasticity of Polyrotaxane Glass

(The University of Tokyo) Kazuaki Kato, Kohzo Ito

Room C (LR301)

9:40-10:40 Tsuyoshi Koga (Kyoto Univ.)

3C01. Viscoelastic properties of hydrogels with amphiphilic co-networks

(The University of Tokyo) Shinji Kondo, Takashi Hiroi, Mitsuhiro Shibayama, Ung-il Chung, Takamasa Sakai

3C02. Mechanical work at the volume phase transition of poly (N-isopropylacrylamide) gel under tension

(Kyoto University) Naoya Tochishita, Jun-ichi Horinaka, Toshikazu Takigawa

3C03. Mechanical/optical properties of stimuli-responsive hydrogel consisted of imogolite and organic polymer.

(Tokyo University of Agriculture and Technology) Kazuhiro Shikinaka, Tomomi Yokoi,  
Masaki Shimotsuya, Kiyotaka Shigehara

10:50-11:50 Seiichi Kawahara (Nagaoka University of Technology)

3C04. Molecular Simulation of Structure Formation and Mechanical Properties of Gels Formed by End-linking of Tetra-arm Polymers

(Kyoto University) Hiroki Tanaka, Tsuyoshi Koga

3C05. Viscoelastic Behavior of Anisotropic Gel during Formation Process under Electric Field

(Kyushu University) Yuka Koga, Daisuke Tatsumi

3C06. Solvent transportation behavior of mechanically constrained agarose gels which contain glycerol

(Rakuno Gakuen University) Isamu Kaneda, Yui Sakurai

13:00-14:20 Takamasa Sakai (The Univ. of Tokyo)

3C07. Preparation and properties of phenyl-group containing natural rubber

(Nagaoka University of Technology) Seiichi Kawahara, Kenichiro Kosugi

3C08. Nonlinear Elasticity of Porous Elastomers Revealed by Various Types of Deformation

(Kyoto Institute of Technology) Hiroki Iba, Yukihiro Nishikawa, Kenji Urayama

3C09. Effects of the peel angle on peel force of pressure-sensitive adhesive tape to soft interface

(Yokohama National University) Ryo Ichikawa, Yoshiki Sugizaki, Yoshimi Tanaka, Atsushi Suzuki

3C10. Yielding and Tearing Behavior of Rubber-Microparticles Melts of Poly(n-butylacrylate)

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>KANEKA) Yuki Kosugi<sup>1</sup>, Kenji Urayama<sup>1</sup>, Yoshiaki Matsuoka<sup>2</sup>

14:30-15:50 Jun-ichi Horinaka (Kyoto Univ.)

3C11. Mechanical property and strain-responsive structural color change of colloid crystal immobilized in elastomer

(Nagoya Institute of Technology) Katsuhiko Inomata, Tatsunori Ito, Reimi Emoto, Hideki Sugimoto, Eiji Nakanishi

3C12. Effect of shell composition in the shear destruction of fused core-shell particles

(Kobe University) Ryota Shimanaka, Yoshiyuki Komoda, Hiroshi Suzuki, Ruri Hidema

3C13. Long-time structural construction of amorphous polymer and their mechanical properties

(Fukuoka University) Naoto Oda, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao

3C14. UV degradation properties of recycled polypropylene stationery commodities

(<sup>1</sup>TOSOH Analysis and Research Center, <sup>2</sup>Fukuoka University) Eiichi Takatori<sup>1</sup>, Shigeru Yao<sup>2</sup>, Toshitaka Shimura<sup>1</sup>

Room D (LR302)

9:40-10:40 Daisuke Tatsumi (Kyushu Univ.)

3D01. Hydration Behavior and Rheology of Chemically Modified Cellulose

(Tokyo University of Agriculture and Technology) Kengo Arai, Toshiyuki Shikata

3D02. Concentration Dependence of Molar Mass of Wormlike Micelles

(Osaka University) Masato Yamaguchi, Tadashi Inoue

3D03. Viscoelasticity of aqueous polymer solution using a dynamic light scattering

(Tokyo University of Agriculture and Technology) Toshiyuki Shikata, Naoya Sagawa

10:50-11:50 Hiroshi Kimura (Gifu Univ.)

3D04. Partial Dynamics of Flexible Polymer Chains in Dilute Solution

(Tokyo University of Agriculture and Technology) Ryo Takigawa, Toshiyuki Shikata

3D05. Rheology of Concentrated Colloidal Dispersions

-Viscoelastic Behavior and microstructure of the Dispersions Containing Colloidal Crystals-

(Toyota Central R&D Labs) Hiroshi Nakamura, Naomi Kumano, Masashi Harada, Masahiko Ishii

3D06. Rheological Properties of Temperature-Responsive Microgel Suspensions

(<sup>1</sup>Kyoto Institute of Technology, <sup>2</sup>Shinshu University) Saori Minami<sup>1</sup>, Kenji Urayama<sup>1</sup>, Takumi Watanabe<sup>2</sup>, Daisuke Suzuki<sup>2</sup>

13:00-14:20 Akio Nasu (SHISEIDO Research Center)

3D07. Effect of oil on rheological properties of O/W emulsions by using Sucrose Fatty Acid Esters

(Nippon Menard Cosmetic) Takayuki Yamada, Sadanori Ban, Satoru Nakata

3D08. Study of organogel formed from Dextrin Fatty Acid Esters and Liquid Paraffin

(<sup>1</sup>Nippon Menard Cosmetic, <sup>2</sup>JASRI/SPring-8, <sup>3</sup>University of Hyogo) Sadanori Ban<sup>1</sup>,  
Masugu Sato<sup>2</sup>, Noboru Ohta<sup>2</sup>, Lei Li<sup>3</sup>, Satoru Nakata<sup>1</sup>

3D09. Improvement of Occlusivity with Polymer having Normal Force

(Kao) Eiko Tamura, Hirokazu Zushi, Takuji Kume

3D10. Rheological analysis of emulsions using amphiphilic polysaccharide hydrogel and surfactants.

(Kao) Eri Akiyama, Ayumi Shinpou, Yoshiyuki Nabata

14:30-15:50 Yoshiyuki Nabata (Kao)

3D11. Nonlinear rheology of Mixtures of Polyetherurethanes with Both Hydrophobized Terminals and Water Swellable Microgel

(<sup>1</sup>Osaka University, <sup>2</sup>SHISEIDO Research Center) Kana Yamazaki<sup>1</sup>, Tadashi Inoue<sup>1</sup>, Ayano Nakamura<sup>2</sup>, Koichi Fuji<sup>2</sup>, Akio Nasu<sup>2</sup>

3D12. Hysteresis effect of restructuring process on yield behavior in  $\alpha$  gels

(<sup>1</sup>Nagaoka University of Technology, <sup>2</sup>Shiseido Research Center) Tadashi Shimizu<sup>1</sup>,  
Ippei Homma<sup>1</sup>, Yumiko Yoshitake<sup>1</sup>, Tsutomu Takahashi<sup>1</sup>, Kenji Noda<sup>2</sup>

3D13. Characteristic evaluation by hysteresis of yield behavior in clay dispersing colloidal Gels

(<sup>1</sup>Nagaoka University of Technology, <sup>2</sup>Shiseido Research Center) Ippei Homma<sup>1</sup>, Yasunori Satou<sup>1</sup>,  
Yumiko Yoshitake<sup>1</sup>, Tsutomu Takahashi<sup>1</sup>, Kenji Noda<sup>2</sup>, Atsushi Sogabe<sup>2</sup>

3D14. Yielding and flow characteristics of O/W emulsion containing  $\alpha$ -gel.

(<sup>1</sup>Shiseido Research Center, <sup>2</sup>Nagaoka University of Technology) Kenji Noda<sup>1</sup>, Atsushi Sogabe<sup>1</sup>,  
Ippei Homma<sup>2</sup>, Tadashi Shimizu<sup>2</sup>, Yumiko Yoshitake<sup>2</sup>, Tsutomu Takahashi<sup>2</sup>

Room E (LR201)

9:40-10:40 Daisuke Kawaguchi (Kyushu Univ.)

3E01. Evaluation of mechanical property of Langmuir films with EMS system

(Tokyo Denki University) Takeo Fujimoto, Maiko Hosoda

3E02. Effect of drying on aggregation orientation for application film of chromonic liquid crystal

(Nagaoka University of Technology) Shiro Wakaki, Hiroyuki Yamazaki, Yumiko Yoshitake, Tsutomu Takahashi

3E03. Analysis of the polymer chain dynamics focused on chain end using coarse-grained molecular dynamics method

(AIST) Hiroshi Morita

10:50-11:50 Keiji Takana (Kyushu Univ.)

3E04. Characterization of Molecular Aggregation Structure in Polymers

(<sup>1</sup>Kyushu University, <sup>2</sup>POSTECH, <sup>3</sup>JASRI) Makoto Kido<sup>1</sup>, Ryohei Ishige<sup>1</sup>, Young-Yong Kim<sup>2</sup>, Brian Ree<sup>2</sup>, Noboru Ohta<sup>3</sup>, Tomoyasu Hirai<sup>1</sup>, Atsushi Takahara<sup>1</sup>

3E05. Polymerization of fluorine-side chain crystalline lock copolymer and its physical properties

(Fukuoka University) Hideaki Obuchi, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao

3E06. Crystalline interaction by crystalline side chain

(Fukuoka University) Shigeru Yao

13:00-14:20 Shigeru Yao (Fukuoka Univ.)

3E07. Molecular simulations of lubrication properties of concentrated polymer brushes

(Kyoto University) Hiroshi Okamoto, Tsuyoshi Koga

3E08. Water sorption kinetics of Nafion thin films in water vapor

(Kyushu University) Yoshikazu Kamimura, Yudai Ogata, Daisuke Kawaguchi, Keiji Tanaka

3E09. Thickness effect on proton conductivity in Nafion films

(<sup>1</sup>Kyushu University, <sup>2</sup>High Energy Accelerator Research Organization) Yudai Ogata<sup>1</sup>, Daisuke Kawaguchi<sup>1</sup>, Norifumi L. Yamada<sup>2</sup>, Keiji Tanaka<sup>1</sup>

3E10. Aggregation Structure and Thermal Molecular Motion of Polyisoprene Rubber Thin Film

(<sup>1</sup>Kyushu University, <sup>2</sup>High Energy Accelerator Research Organization) Shinichiro Shimomura<sup>1</sup>, Manabu Inutsuka<sup>1</sup>, Norifumi L Yamada<sup>2</sup>, Keiji Tanaka<sup>1</sup>

Room F (LR202)

9:40-10:40 Takehiro Yamamoto (Osaka Univ.)

3F01. Influence of Swallowing Postures and Rheological Properties of Liquid Food on Swallowing Flow

(<sup>1</sup>Tokyo Metropolitan University, <sup>2</sup>Japanese Red Cross Musashino Hospital)

Junfang Zhu<sup>1</sup>, Hiroshi Mizunuma<sup>1</sup>, Yukihiro Michiwaki<sup>2</sup>

3F02. Influence of gel characteristics of agar / gelatin mixtures on jamming properties through a converging pipe

(Niigata University) Keiichi Sekiguchi, Takatsune Narumi, Akiomi Ushida, Ryuichi Kayaba

3F03. Experimental study on suppression of viscous fingering by a reactive viscoelastic interface

(Tokyo University of Agriculture and Technology) Toshizo Kambara, Yuichiro Nagatsu

10:50-11:50 Takatsune Narumi (Niigata Univ.)

3F04. Numerical simulation of flow behavior of phototactic microalgae dispersion system

(Osaka University) Nakai Koichi, Yamamoto Takehiro

3F05. Numerical simulation of biofilm growth under flow

(Osaka University) Fujiwara Takuya, Minami Takayuki, Yamamoto Takehiro

3F06. Strain Mode of General Flow: Characterization and Implication to Mixing

(<sup>1</sup>Kyushu University, <sup>2</sup>UNITIKA) Yasuya Nakayama<sup>1</sup>, Tatsunori Masaki<sup>2</sup>, Toshihisa Kajiwara<sup>1</sup>

13:00-14:00 Toshihisa Kajiwara (Kyushu Univ.)

3F07. Numerical Simulation of Nematic Liquid Crystalline Flow in Cylindrical Pipe

(Kochi University of Technology) Toshiki Yoshioka, Tomohiro Tsuji, Shigeomi Chono

3F08. Change of flow-induced orientation of polymer solution through a planar channel with an abrupt contraction and a successive abrupt expansion

(<sup>1</sup>Niigata University, <sup>2</sup>Ehime University) Taisuke Sato<sup>1</sup>, Takatsune Narumi<sup>1</sup>, Kazunori Yasuda<sup>2</sup>, Akiomi Ushida<sup>1</sup>, Ryuichi Kayaba<sup>1</sup>

3F09. Study on light irradiation method for drag-reducing photorheological fluids

(Nagoya Institute of Technology) Shinji Tamano, Yugo Abe, Yohei Morinishi