

Program
Happiring Hall, Fukui, Japan
 March 7 – 10, 2018
 Presentation time, S: Invited, 25 min. (20 + 5)
 A: 20 min. (15 + 5), B: 15 min. (10 + 5)

DAY 1 **March 7** (19:00 – 20:45)

Chair: Hidetaka Tobita

19:00		Opening Remarks Mamoru Nomura, Honorable Chairperson
19:20	1-01S	Are All of Sulfate End-Groups Localized at Particle Surfaces Prepared by Emulsion Polymerization of Styrene with Potassium Persulfate? <u>Masayoshi Okubo</u> Nanjing Tech University, China
19:45	1-02S	On the Advances of Particle Formation Mechanism in the Heterophase Polymerization <u>Henmei Ni</u> Southeast University, China
20:10	1-03S	Effect of Chain Transfer to Polymer in Conventional and Living Emulsion Polymerization <u>Hidetaka Tobita</u> University of Fukui, Japan
20:35		Announcement
20:45		End of Day 1

DAY 2 **March 8** (9:00 – 21:00)

Chair: Masayoshi Okubo

9:00	2-01S	Interesting Behavior and Kinetics of Cyclic Siloxanes Ring-opening Polymerization in Acid Emulsion <u>Kiyoshi Suzuki</u> , Daisuke Ishiguro, Shun Okubo, Tomohiro Miyazaki, Hidetaka Tobita University of Fukui, Japan
9:25	2-02S	Preparation of Polymer Particles Containing Reduced Graphene Oxide Stabilized by Poly(ionic liquid) <u>Hideto Minami</u> ¹ , Masayoshi Tokuda ^{1,2} , Mitsuyoshi Yamane ¹ , Stuart C. Thickett ^{2,3} , Per B. Zetterlund ³ ¹ Kobe University, Japan; ² The University of New South Wales, Australia; ³ The University of Tasmania, Australia
9:50	2-03S	Advanced Emulsion Polymerization with a Tiny Amount of Low CMC Surfactant <u>Haruyuki Ishii</u> , Hitoshi Nakazawa, Naoto Kuwasaki, Motohiro Ishii, Mikio Konno, Daisuke Nagao Tohoku University, Japan
10:15	2-04A	Polymerizable/Reactive Surfactants in Emulsion Polymerization Chi Tao, Takuro Kimura, Asako Ogasawara, <u>Kei Shiohara</u> , Masatake Joyabu, Keiichi Fujise DKS Co. Ltd., Japan
10:35		Break

Chair: Hideto Minami

10:50	2-05S	Morphology Control in Polymer Nanocomposite Particles, Controlled Radical Polymerization vs Free Radical Polymerization <u>Alex van Herk</u> ^{1,2} , Olessya Loiko ^{1,2} , Hans Heuts ² , Mohammad Amin Moradi ² , Alexander William Jackson ¹ , Wendy Rusli ¹ ¹ Institute of Chemical Engineering Sciences, Singapore; ² Eindhoven University of Technology, Netherlands
11:15	2-06S	RAFT Emulsion Polymerization: Fundamentals and Emerging Functional Materials <u>Yingwu Luo</u> , Kun Yan, Yulong Guo, Jie Mao Zhejiang University, China
11:40	2-07S	Synthesis of Nano-particles and Nano-capsules via Iodide Ion (I⁻) Catalyzed Living Radical Polymerization <u>Atsushi Goto</u> Nanyang Technological University, Singapore

12:05

Lunch Meeting (Wel-Aossa, Aossa, 3F)

Chair: Tatsuo Taniguchi

13:30	2-08S	Development of Novel Materials from Polymerization of Pickering Emulsion and High Internal Phase Emulsion Templates Lei Lei, He Zhu, <u>Shiping Zhu</u> McMaster University, Canada
13:55	2-09S	Synthesis of Multi-Component Polymer Particles with Smart Properties through a Controlled Semi-Batch Emulsion Polymerization Chun Ho Yam, Cheng Hao Lee, Yuen Shan Siu, Kin Man Ho, <u>Pei Li</u> The Hong Kong Polytechnic University, China
14:20	2-10S	Preparation of Unimolecular Star-shaped Polymer Particles by RAFT Dispersion Polymerization <u>Seigou Kawaguchi</u> , Sumika Sato, Keita Ohba, Moriya Kikuchi Yamagata University, Japan
14:45	2-11A	Two-step Reprecipitation Method with Size and Zeta-Potential Controllability for Synthesizing Semiconducting Polymer Nanoparticles <u>Masaru Nagai</u> , Jun Huang, Wei Huang Nanjing Tech University, China

15:05

Break

Chair: Atsushi Goto

15:20	2-12S	Enable New Function for Polysaccharide Microspheres and Preparation of New Products <u>Guanghui Ma</u> , Wei Wei, Jie Wu, Weiqing Zhou Chinese Academy of Sciences, China
15:45	2-13B	Hollow Silica Particles Synthesized with Perhydropolysilazane in W/O Emulsion Kaoru Kuramochi, Hana Kiyosawa, <u>Reiko Saito</u> Tokyo Institute of Technology, Japan
16:00	2-14B	Emulsifier Having Reactive Group in Its Bulky Counter Ion: Its Interfacial Properties and Behavior in Emulsion Polymerization <u>Yuki Ogura</u> ² , Hirotomoto Maeda ¹ , Yuta Saito ² , Koutarou Kanetaki ² , Chuken O ² , <u>Atsushi Kameyama</u> ¹ , Haruma Kawaguchi ¹ ¹ Kanagawa University, Japan; ² Nippon Nyukazai Co., Ltd., Japan

16:15	2-15A	Structural Control of Hydrogel Microparticles Using Aqueous Two Phase Separation within Emulsion Droplets <u>Takaichi Watanabe</u> , Ibuki Motohiro, Tsutomu Ono Okayama University, Japan
16:35	2-16B	Properties of Polyvinyl Acetate Emulsion Having New Type of High Molecular Weight Polyvinyl Alcohol <u>Yuta Taoka</u> , Keisuke Morikawa, Yoriko Imaoka, Masato Nakamae Kuraray Co. Ltd., Japan

16:50 **Break**

Chair: Kiyoshi Suzuki

19:00	Poster Session
21:00	End of Day 2

DAY 3 **March 9 (9:00 – 20:00)**

Chair: Seigo Kawaguchi

9:00	3-01S	Preparation of Liquid Core Nanocapsules Containing Photochromic Dyes by Polymerization of O/W Emulsion Monomer Droplets Obtained through Phase Inversion Temperature Emulsification <u>Tatsuo Taniguchi</u> ¹ , Yosuke Tsuru ¹ , Michinari Kohri ¹ , Keiki Kishikawa ¹ , Masaki Hayashi ² ¹ Chiba University, Japan; ² NOF Corporation, Japan
9:25	3-02S	Fabrication of Biocompatible/Biodegradable Microspheres from Curable Polylactic Acid-Based Copolymers Kamonchanok Thananukul ¹ , Chariya Kaewsaneha ¹ , Atitsa Petchsuk ² , Wilairat Supmak ² , <u>Pakorn Opaprakasit</u> ¹ ¹ Thammasat University, Thailand; ² National Science and Technology Development Agency, Thailand
9:50	3-03S	Photo-Sensitive Copolymers Containing Spironaphthoxazine and Colloidal Particles Prepared Therefrom <u>In Woo Cheong</u> , Lone Saifullah, Miri Kim, Jeong In Ahn Kyungpook National University, Korea
10:15	3-04B	Preparation of Gigaporous Polymeric Microspheres Stabilized by Aqueous Two-Phase System <u>Weiqing Zhou</u> , Juan Li, Xiangming Na, Guanghui Ma Chinese Academy of Sciences, China

10:30 **Break**

Chair: Guanghui Ma

10:45	3-05S	Evidence of Presence of Long Chain Fatty Acid Soaps on <i>Hevea</i> Natural Rubber Latex Particles for Stabilization Nut Churinthorn ¹ , Jitladda Sakdapipinich ¹ , <u>Chee-Cheong Ho</u> ² ¹ Mahidol University, Thailand; ² University of Tunku Abdul Rahman, Malaysia
11:10	3-06S	Pickering Emulsion Templated Capsules: Preparation and Controlled Release Hang Jiang, <u>To Ngai</u> The Chinese University of Hong Kong, China

11:35	3-07B	Selection of Dispersants via Adhesion Force Study and Preparation of Stable Graphene Dispersion <u>Suguna Perumal</u> , Hyang Moo Lee, In Woo Cheong Kyungpook National University, Korea
11:50	3-08B	Preparation and Characterization of Chitosan Dispersed Poly(lactic Acid) Blending and Grafting with Graphene Oxide Composites <u>Siti Noor Kamilah Mohamad</u> ¹ , Irmawati Ramli ¹ , Nor Azowa Ibrahim ¹ , Luqman Chuah Abdullah ¹ , Nor Hashimah Mohamed ² ¹ Universiti Putra Malaysia, Malaysia; ² Malaysia Nuclear Agency, Malaysia

12:05

Lunch Meeting (Wel-Aossa, Aossa, 3F)

Chair: Syuji Fujii

13:30	3-09S	Self-Organization of Soft Hydrogel Microspheres at the Air/Water Interfaces <u>Daisuke Suzuki</u> , Masaya Takizawa, Yuka Sazuka, Haruka Minato Shinshu University, Japan
13:55	3-10B	Molecular Design of Polydimethylsiloxane(PDMS)-Based Photo-Curable Polymer and Its Effect on Mechanical Properties <u>Gwajeong Jeong</u> , Hyunseung Yang, Seong-Dae Park, Woo-Sung Lee Korea Electronics Technology Institute, Korea
14:10	3-11A	Nanocomposite Microgels Formed by Seeded Emulsion Polymerization of Styrene in the Presence of Hydrogel Microspheres <u>Takumi Watanabe</u> ¹ , Song Chihong ² , Kazuyoshi Murata ² , Takuma Kureha ¹ , Daisuke Suzuki ¹ ¹ Shinshu University, Japan; ² National Institute for Physiological Sciences, Japan
14:30	3-12B	Easy Removal of Hg²⁺ from Wastewater by Biodegradable Gelatin-Chitosan (GC) Hydrogel Particles <u>Saifullah Lone</u> , In Woo Cheong Kyungpook National University, Korea
14:45	3-13A	Application of Polymeric Particle Prepared by Polymerization without Surfactant and Influence of Its Wastewater on Microbes <u>Tetsuya Yamamoto</u> ¹ , Yuya Takahashi ¹ , Katsumasa Uematsu ¹ , Kenji Arakawa ² ¹ Nagoya University, Japan; ² Hiroshima University, Japan

15:05

Break

Chair: Daisuke Suzuki

15:20	3-14S	Light-Driven Delivery of Materials Using Liquid Marble Hisato Kawashima ¹ , Hiroyuki Mayama ² , Yoshinobu Nakamura ¹ , <u>Syuji Fujii</u> ¹ Osaka Institute of Technology, Japan; ² Asahikawa Medical University, Japan
15:45	3-15B	Fabrication of Metal Layers on Photo-curable Polymers for 3D Printing Materials <u>Hyunseung Yang</u> , Minji Ha, Gwajeong Jeong, Seong-Dae Park, Woo-Sung Lee Korea Electronics Technology Institute, Korea
16:00	3-16A	Sub-Micron Silicon/SAN@Natural Graphite Self-Assembly Composite and Its Application in Li-Ion Batteries <u>Zhoulu Wang</u> , Xiang Liu Nanjing Tech University, China
16:20	3-17B	Biomimetically Engineered Demi-Bacteria Potentiate Vaccination Against Cancer <u>Wei Wei</u> , Guanghui Ma Chinese Academy of Sciences, China

Chair: Hidetaka Tobita

16:35	3-18S	Anisotropic Hybrid Polymer Particles with Well Defined Morphologies <u>Pramuan Tangboriboonrat</u> , Waraporn Wichaita, Narissara Sudjaipraparat, Sukanya Nuasaen, Chariya Kaewsaneha Mahidol University, Thailand
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17:00	3-19S	The Fourth Generation of Emulsion Polymerization: from the Past, to the Future <u>Jung Hyun Kim</u> Yonsei University, Korea
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17:25 **Break**

19:00	Banquet (Yours Hotel, 4F) Including ceremony of Student's Award selected from Poster Session
21:00	End of Day 3

DAY 4 **Post-Conference Tour**

9:00	JR Fukui Station: East exit (the opposite exit from Happiring Hall) Eiheiji Temple, Lunch at Kagetsu-Rou, Fukui Prefectural Dinosaur Museum
16:00	JR Fukui Station

Poster Session

DAY 2, March 8
19:00 – 21:00

Chair: Kiyoshi Suzuki

The names with double underline are the candidates for Students' Award.

- P-01 **A Facile Method for Preparation of Monodisperse Cylindrical Polystyrene Particles**
Wei Li, Toyoko Suzuki, Hideto Minami
Kobe University, Japan
- P-02 **Application of Spongy Cellulose Particles to Encapsulations**
Taro Omura, Kaori Imagawa, Toyoko Suzuki, Hideto Minami
Kobe University, Japan
- P-03 **Synthesis of Element-Block Polymer Particles Containing Phosphate Group by Stabilizer-Assisted Polymerization-Induced Self Assembly**
Haruka Hanochi, Nobuaki Nishizawa, Yoshinobu Nakamura, Syuji Fujii
Osaka Institute of Technology, Japan
- P-04 **Double Emulsion Templated Microspheres with Hierarchical Porous Structures: A Candidate for Trapping Virus-Like Particles**
Xiangming Na, Jianjun Guo, Tong Li, Hong Ding, Weiqing Zhou, Guanghui Ma
Chinese Academy of Sciences, China
- P-05 **Stereocomplexed Polylactide-Based Nanocapsules for Controlling the Release Behavior of Encapsulated Molecules**
Sayako Ogita, Yui Sakamoto, Takaichi Watanabe, Tsutomu Ono
Okayama University, Japan
- P-06 **Fabrication of Particle-Stabilized Bubbles and Their Light-Induced Locomotions**
Masaya Ito¹, Hisato Kawashima¹, Hiroyuki Mayama², Yoshinobu Nakamura¹, Syuji Fujii¹
¹Osaka Institute of Technology, Japan; ²Asahikawa Medical University, Japan
- P-07 **Polymeric Microspheres Cross-Linked with Rotaxane Structure**
Seina Hiroshige¹, Takuma Kureha¹, Jun Sawada², Daisuke Aoki², Toshikazu Takata²,
Daisuke Suzuki¹
¹Shinshu University, Japan; ²Tokyo Institute of Technology, Japan
- P-08 **Non-Spherical Hollow Latex Particles as White Pigment in Paint Film**
Narissara Sudjaipraparat, Chariya Kaewsaneha, Sukanya Nuasaen, Pramuan Tangboriboonrat
Mahidol University, Thailand
- P-09 **High Functionalization of CNTs and Resin Composite Material by Using Polymer Particles**
Naoya Toyoda, Tetsuya Yamamoto
Nagoya University, Japan
- P-10 **Preparation of Dye-Incorporated Polystyrene Particles**
Natalya Sankova, Viktoriya Semeykina, Ekaterina Parkhomchuk
Boreskov Institute of Catalysis, Novosibirsk State University, Russia
- P-11 **Analysis on Magnetophoretic Properties of Magnetic Composite Particles toward Precise Separation of Target Components**
Natsuki Kohama, Haruyuki Ishii, Mikio Konno, Daisuke Nagao
Tohoku University, Japan
- P-12 **Preparation of Asymmetric Composite Particles Supporting Nanoparticles for Self-Propelled Motion**
Nozomi Shigeta, Haruyuki Ishii, Daisuke Nagao
Tohoku University, Japan
- P-13 **Simple and Mass Fabrication of Monodisperse Dimpled Sub-Microparticles Using Free Micro Mixer**
Yusuke Kawai, Tetsuya Yamamoto
Nagoya University, Japan

- P-14 **Self-Healable Polymers for Anti-Corrosive Coatings**
Sumin Yun, Sunghwan Ju, Jaeil Park, In Woo Cheong
 Kyungpook National University, Korea
- P-15 **Stable Graphene Alcoholic Dispersions with P(PEGMA-r-DMA) and P(GlyMA-r-DMA) Copolymers**
Kum Ju Baek, Suguna Perumal, In Woo Cheong
 Kyungpook National University, Korea
- P-16 **Pickering Emulsion Stabilized by Oppositely Charged Nanoparticles**
Kuan-Ting Lin, To Ngai
 The Chinese University of Hong Kong, China
- P-17 **Inverse Pickering Miniemulsion Templated Silica Submicron Capsules and Solvent-Triggered Release**
Hang Jiang, Liangzhi Hong, To Ngai
 The Chinese University of Hong Kong, China
- P-18 **Fabrication of Ordered Structure Incorporating Gold Nanoparticles for Highly Sensitive Detection of Chemical Components**
Ayumi Yahata, Haruyuki Ishii, Daisuke Nagao
 Tohoku University, Japan
- P-19 **Synthesis of Block Copolymers for Polymer/Carbon Allotropes Composites**
Hyang Moo Lee, Jae Il Park, In Woo Cheong
 Kyungpook National University, Korea
- P-20 **Synthesis of Block Copolymer Coated Iron Oxide Nanoparticles for Kinetic Hydrate Inhibition**
Ye Won Bae, Kyuchul Shin, In Woo Cheong
 Kyungpook National University, Korea
- P-21 **Preparation of Polystyrene/SiO₂/polydopamine Core/shell Composite and Its Application in Lithium-ion Batteries**
Aoning Wang, Xiang Liu
 Nanjing Tech University, China
- P-22 **Exploiting the Pliability and Lateral Mobility of Pickering Emulsion for Enhanced Vaccination**
Yufei Xia, Guanghui Ma
 Chinese Academy of Sciences, China
- P-23 **Development of Immunolates Particles for Malaria Detection**
Supang Sripraphot¹, Duangporn Polpanich², Pramuan Tangboriboonrat¹
¹Mahidol University, Thailand; ²National Science and Technology Development Agency, Thailand
- P-24 **Enhancing CO₂ Capture using Robust Superomniphobic Membranes**
Florian Geyer, Clarissa Schönecker, Hans-Jürgen Butt, Doris Vollmer
 Max Planck Institute for Polymer Research, Germany
- P-25 **Multiple Carbon Dots-Crosslinked Polyethyleneimine Nanogels with Ultra-Bright Fluorescence for Tracking Intracellular Gene Delivery**
Yuan Yao¹, Dechao Niu^{1,2}, Cheng Hao Lee¹, Yan-Juan Gu¹, Ki Lui¹, Pei Li¹
¹The Hong Kong Polytechnic University, China;
²East China University of Science and Technology, China
- P-26 **Design and Synthesis of Multifunctional Nanocomposites Enabling Magnetic Targeting and Photoacoustic Imaging for Photothermal Therapy**
 Jinfeng Liao, Liangyu Zhou, Pei Li
 The Hong Kong Polytechnic University, China
- P-27 **Improved Electrical and Optical Characteristics of PEDOT:PSS via Acid Solution-Processed Ultrafiltration**
Youngno Kim, Hangeol Cho, Jin-geun Lee, Wonseok Cho, Jung Hyun Kim
 Yonsei University, Korea

- P-28 **PEDOT:PSS Hybridization on Graphene Film for Flexible and Transparent Thermoelectric Generator**
Chanil Park, Soeun Im, Yunryeol Kim, Wonseok Cho, Jung Hyun Kim
 Yonsei University, Korea
- P-29 **Preparation of Micrometer-size Poly(Methyl Acrylate) Particles by Utilizing Microsuspension Iodine Transfer Polymerization (*ms* ITP) : Simulation and Experiment**
Chujuan Huang¹, Nobuko Yamashita², Amorn Chaiyasat³, Xiang Liu¹, Masayoshi Okubo^{1,2,3}
¹Nanjing Tech University, China; ²Kobe University, Japan; ³Rajamangala University of Technology Thanyaburi, Thailand
- P-30 **Role of “HITENOLAR” Reactive Surfactant in Emulsion and Miniemulsion Polymerization**
Asako Ogasawara¹, Kei Shiohara¹, Masatake Joyabu¹, Keiichi Fujise¹, Eric S. Daniels²,
 Mohamed S. El-Aasser²
¹DKS Co. Ltd., Japan; ²Lehigh University, USA
- P-31 **Uniformed Size Porous mPEG-PLGA Microspheres for SCT Sustained Release**
Yi Wei, Guanghui Ma
 Chinese Academy of Sciences, China
- P-32 **Strange Seeded Emulsion Copolymerization Behavior of Hydrophobic Monomer and Hydrophilic Monomer**
Ayaka Yamaguchi, Maria Kawaguchi, Kiyoshi Suzuki
 University of Fukui, Japan
- P-33 **Studying the Anticorrosive Properties of Composite Nickel Coatings Containing Microcapsules with a Corrosion Inhibitor**
Kholkin Oleg Sergeevich, Kurbatov Andrey Petrovich, Galeyeva Alyna Kulbaevna,
 Kokhmetova Saule Talgatovna, Sertaeva Zhanylys Orynbekovna
 Center of Physico-Chemical Methods of Research and Analysis, Kazakhstan
- P-34 **Development of the Novel Cationic Vesicles with High Potential for Ingredient Delivery and Stability**
Naoyuki Hirata¹, Eiichi Takakuwa², Nobuhiro Kato¹, Haruma Kawaguchi^{1,3}
¹WAMILES COSMETICS Inc., Japan; ²COSMEDIA LABORATORIES Co., Ltd., Japan;
³Kanagawa University, Japan
- P-35 **Highly Absorbing Superabsorbent Polymer via Iodide-Mediated Controlled Radical Polymerization**
Toru Miyajima¹, Yusuke Matsubara¹, Hiroto Komatsu², Yu Yamaguchi², Kazumitsu Suzuki¹,
 Michihiko Miyamoto²
¹SDP Global Co., Ltd., Japan; ²Godo Shigen Co., Ltd., Japan
- P-36 **Properties of Urethane Acrylate Hybrid Emulsion**
Eri Hatakeyama, Ryousuke Kawasaki, Masaji Saitou
 Japan coating resin Corporation, Japan
- P-37 **Development of Soft-Rigid Layer Core-Shell Microsphere Using Polybutadiene and Inorganic Materials**
Shoji Nagaoka¹, Hideo Sakurai¹, Yangwon Kang², Tomohiro Shirosaki¹, Maki Horikawa¹,
 Naoya Ryu¹, Makoto Takafuji², Hirotaka Ihara²
¹Kumamoto Industrial Research Institute, Japan; ²Kumamoto University, Japan
- P-38 **Soft Nanoparticle Flotation Collectors**
Xiaofei Dong^{1,2}, Qiaoling Hu¹, Robert Pelton²
¹Zhejiang University, China; ²McMaster University, Canada
- P-39 **Durability Study of Asphaltene Reinforced LDPE/HDPE Composites under UV-Irradiation and Local Weathering Exposure**
Mohammad N. Siddiqui, Halim H. Redhwi, Muhammad Younas
 King Fahd University of Petroleum & Minerals, Saudi Arabia

P-40 **Preparation of Sponge-like SAN Copolymer Particles and Their Application in Supercapacitors**
Yan Feng, Zhoulu Wang, ZeMin Mao, Xiang Liu
Nanjing Tech University, China