

Preliminary Program for ASEPFPM 6

(As of Dec. 19, 2017)

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 <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 , Mitsuyoshi Yamane ¹ , Masayoshi Tokuda ¹ , Stuart C. Thickett ² , Per B. Zetterlund ³ ¹ Kobe University, Japan; ² The University of Tasmania, Australia; ³ University of New South Wales, 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, Daisuke Nagao, Mikio Konno Tohoku University, Japan
10:15	2-04A	Polymerizable/Reactive Surfactants in Emulsion Polymerization Chi Tao, Takuro Kimura, Asako Ogasawara, <u>Kei Shiohara</u> , Masataka 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> 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 <u>Shiping Zhu</u> McMaster University, Canada & Chinese University of Hong Kong, Shenzhen, China
13:55	2-09S	Synthesis of Multi-Component Polymer Particles with Smart Properties through a Controlled Semi-Batch Emulsion Polymerization <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> 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 Acrylic Group in Its Bulky Counter Ion: Its Interfacial Properties and Behavior in Emulsion Polymerization <u>Yuki Ogura</u> ² , Hirotomoto Maeda ¹ , Koutarou Kanetaki ² , Chuken O ² , Atsushi Kameyama ¹ , Haruma Kawaguchi 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	Preparation of Biocompatible/Biodegradable Microspheres from Curable Polylactic Acid-Based Copolymers for Biomedical Applications Kamonchanok Thananukul ¹ , Atitsa Petchsuk ² , <u>Pakorn Opaprakasi</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> Kyungpook National University, Korea
10:15	3-04B	Preparation of Gigaporous Polymeric Microsphere Stabilized by Aqueous Two-Phase System <u>Weiqing Zhou</u> , Guanghui Ma Chinese Academy of Sciences, China

10:30

Break

Chair: Guanghui Ma

10:45	3-05S	Effect of Latex Stability on Natural Rubber Latex Film Morphology <u>Chee-Choeng Ho</u> , Nut Churinthorn and Jitladda Sakdapipinich Universiti Tunku Abdul Rahman, Malaysia
11:10	3-06S	Pickering Emulsion Templated Capsules: Preparation and Controlled Release To Ngai <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 Polylactic Acid Nanocomposite Grafted/Blended with Graphene Oxide Nanoparticles**
Siti Noor Kamilah Mohamad
Universiti Putra Malaysia, Malaysia

12:05 **Lunch Meeting** (Wel-Aossa, Aossa, 3F)

Chair: Shuji Fujii

13:30 3-09S **Self-Organization of Soft Hydrogel Microspheres at the Air/Water Interfaces**
Daisuke Suzuki, 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**
Gwajeong Jeong, 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**
Takumi Watanabe¹, Song Chihong², Kazuyoshi Murata², Takuma Kureha¹, Daisuke Suzuki¹
¹Shinshu University, Japan; ²National Institute for Physiological Sciences, Japan

14:30 3-12B **Easy Removal of Hg²⁺ from Wastewater by Biodegradable Gelatin-Chitosan (GC) Hydrogel Particles**
Saifullah Lone, 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**
Tetsuya Yamamoto¹, Katsumasa Uematsu¹, Yuya Takahashi¹, Kenji Arakawa²
¹Nagoya University, Japan; ²Hiroshima University, Japan

15:05 **Break**

Chair: Daisuke Suzuki

15:20 3-14S **Light-Driven Delivery of Materials Using Liquid Marble**
Hisato Kawashima¹, Hiroyuki Mayama², Yoshinobu Nakamura¹, Syuji Fujii¹
Osaka Institute of Technology, Japan; ²Asahikawa Medical University, Japan

15:45 3-15B **Facile Preparation of Metal Layers on Photo-curable Polymeric Surfaces for 3D Printing**
Hyunseung Yang, 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**
Zhoulu Wang, Xiang Liu
Nanjing Tech University, China

16:20 3-17B **Biomimetically Engineered Demi-Bacteria Potentiate Vaccination Against Cancer**
Wei Wei, Guanghui Ma
Chinese Academy of Sciences, China

Chair: Hidetaka Tobita

16:35 3-18S **Anisotropic Hybrid Polymer Particles with Well Defined Morphologies**
Pramuan Tangboriboonrat, W. Wichaita, N. Sudjaipraparat, S. Nuasaen, C. Kaewsaneha
Mahidol University, Thailand

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 **Preparation of Micrometer-size Poly(Methyl Acrylate) Particles by Utilizing Microsuspension Iodine Transfer Polymerization (*ms* ITP) : Simulation and Experiment**
Chujuan Huang¹, Nobuko Yamashita², Xiang Liu¹, Masayoshi Okubo^{1,2}
¹Nanjing Tech University, China; ²Kobe University, Japan
- P-02 **Preparation of Dye-Incorporated Polystyrene Particles**
Natalya Sankova, Viktoriya Semeykina, Ekaterina Parkhomchuk
Novosibirsk State University, Boreskov Institute of Catalysis SB RAS, Russia
- P-03 **Role of “HITENOL AR” 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-04 **A Facile Method for Preparation of Monodisperse Cylindrical Polystyrene Particles**
Wei Li, Toyoko Suzuki, Hideto Minami
Kobe University, Japan
- P-05 **Application of Spongy Cellulose Particles to Encapsulations**
Taro Omura, Kaori Imagawa, Toyoko Suzuki, Hideto Minami
Kobe University, Japan
- P-06 **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-07 **Double Emulsion Templated Microspheres with Hierarchical Porous Structures: A Candidate for Trapping Virus-Like Particles**
Xiangming Na, Guanghui Ma
Chinese Academy of Sciences, China
- P-08 **Uniformed Size Porous mPEG-PLGA Microspheres for SCT Sustained Release**
Yi Wei, Guanghui Ma
Chinese Academy of Sciences, China
- P-09 **Stereocomplexed Polylactide-Based Nanocapsules for Controlling the Release Behavior of Encapsulated Molecules**
Sayako Ogita, Yui Sakamoto, Takaichi Watanabe, Tsutomu Ono
Okayama University, Japan
- P-10 **Strange Seeded Emulsion Copolymerization Behavior of Hydrophobic Monomer and Hydrophilic Monomer**
Ayaka Yamaguchi, Maria Kawaguchi, Kiyoshi Suzuki
University of Fukui, Japan
- P-11 **Nanoemulsions: Formation, Stability and Relation between Droplet Size and Kinematic Viscosity of Continuous Phase**
Ritik Shah, Vimal Kumar
Indian Institute of Technology Roorkee, India
- P-12 **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-13 **Synthesis of Polymeric Microspheres Cross-Linked by Rotaxane Networks**
Seina Hiroshige¹, Takuma Kureha¹, Jun Sawada², Daisuke Aoki², Toshikazu Takata², Daisuke Suzuki¹
¹Shinshu University, Japan; ²Tokyo Institute of Technology, Japan

- P-14 **Non-Spherical Hollow Latex Particles as White Pigment in Paint Film**
Narissara Sudjaiprapat, Chariya Kaewsaneha, Sukanya Nuasaen, Pramuan Tangboriboonrat
Mahidol University, Thailand
- P-15 **High Functionalization of CNTs and Resin Composite Material by Using Polymer Particles**
Naoya Toyoda, Tetsuya Yamamoto
Nagoya University, Japan
- P-16 **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-17 **Preparation of Asymmetric Composite Particles Supporting Nanoparticles for Self-Propelled Motion**
Nozomi Shigeta, Haruyuki Ishii, Daisuke Nagao
Tohoku University, Japan
- P-18 **Simple and Mass Fabrication of Monodisperse Dimpled Sub-Microparticles Using Free Micro Mixer**
Yusuke Kawai, Tetsuya Yamamoto
Nagoya University, Japan
- P-19 **Self-Healable Polymers for Anti-Corrosive Coatings**
Sumin Yun, Sunghwan Ju, Jaeil Park, In Woo Cheong
Kyungpook National University, Korea
- P-20 **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-21 **Emulsion Stabilized by Oppositely Charge Nanoparticles**
Kuan Ting Lin, To Ngai
The Chinese University of Hong Kong, China
- P-22 **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-23 **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-24 **Fabrication of Ordered Structure Incorporating Gold Nanoparticles for Highly Sensitive Detection of Chemical Components**
Ayumi Yahata, Haruyuki Ishii, Daisuke Nagao
Tohoku University, Japan
- P-25 **Synthesis of Block Copolymers for Polymer/Carbon Allotropes Composites**
Hyang Moo Lee, Jae Il Park, In Woo Cheong
Kyungpook National University, Korea
- P-26 **Synthesis of Block Copolymer Coated Iron Oxide Nanoparticles for Kinetic Hydrate Inhibition**
Ye Won Bae, In Woo Cheong
Kyungpook National University, Korea
- P-27 **Development of the Novel Cationic Vesicles with High Potential for Ingredient Delivery and High Stability**
Naoyuki Hirata¹, Eiichi Takakuwa², Nobuhiro Kato¹, Haruma Kawaguchi^{1,3}
¹WAMILES COSMETICS Inc., Japan; ²COSMEDIA LABORATORIES Co., Ltd., Japan;
³Kanagawa University, Japan

- P-28 **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; ²Godou Shigen Co., Ltd., Japan
- P-29 **Preparation of Polystyrene-SiO₂-polydopamine Core/shell Composite and Its Application in Lithium-ion Batteries**
Aoning Wang, Xiang Liu
 Nanjing Tech University, China
- P-30 **Biomedical Tailoring Pickering Emulsion for Enhanced Vaccinations**
Yufei Xia, Guanghui Ma
 Chinese Academy of Sciences, China
- P-31 **Development of Immunol latex Particles for Malaria Detection**
Supang Sripraphot, Duangporn Polpanich, Pramuan Tangboriboonrat
 Mahidol University, Thailand
- P-32 **Synthesis Method of Urethane Acrylate Hybrid Emulsion**
Eri Hatakeyama, Ryousuke Kawasaki, Masaji Saitou
 Japan Coating Resin Corporation, Japan
- P-33 **Comparison between Arabic Gum and Arabic Gum-Graft-Acrylonitrile Copolymer in Reducing the Concentration of Some Heavy Metals in Water Samples**
Khaled Elgendy, Dina Abd Elaleem
 Zagazig University, Egypt
- P-34 **Enhancing CO₂ Capture using Robust Superomniphobic Membranes**
Florian Geyer, Clarissa Schönecker, Hans-Jürgen Butt, Doris Vollmer
 Max Planck Institute for Polymer Research, Germany
- P-35 **Temperature Sensitive Microspherical Hydrogels using Silica Nanoparticles as Multifunctional crosslinking points**
Md. Ashraful Alam¹, Makoto Takafuji^{2,3}, Yutaka Kuwahara², Hirotaka Ihara^{2,3}
¹Noakhali Science and Technology University, Bangladesh; ²Kumamoto University, Japan; ³Kumamoto Institute for Photo-Electro Organics, Japan
- P-36 **Development of Soft-Rigid Layer Core-Shell Microspheres using Polybutadiene and Inorganic Materials**
Shoji Nagaoka^{1,2,3}, Hideo Sakurai¹, Yangwon Kang², Tomohiro Shirosaki^{1,3}, Maki Horikawa^{1,3}, Naoya Ryu¹, Makoto Takafuji^{2,3}, Hirotaka Ihara^{2,3}
¹Kumamoto Industrial Research Institute, Japan; ²Kumamoto University, Japan; ³PHOENICS, Japan
- P-37 **Soft Nanoparticle Flotation Collectors**
Xiaofei Dong^{1,2}, Robert Pelton², Zhengke Wang¹, Qiaoling Hu¹
¹Zhejiang University, China; ²McMaster University, Canada