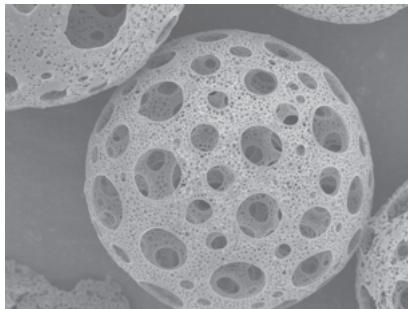


**The 6th Asian Symposium on Emulsion Polymerization
and Functional Polymeric Microspheres**



PREPRINTS



"Happiring Hall" Fukui, Japan

March 7 - 10, 2018

Steering Committee of Polymeric Microspheres Symposium, Japan

福井、福井駅前のハピリン・ホール

2018年3月7日（水）～10日（土）

発表件数：口頭発表 38 ポスター発表 40 参加者数：150 名

2月には福井は大雪に見舞われ、物流／郵便がストップし、ヒヤヒヤの開催となりました。

Cover Photo

Highly interconnected hierarchical porous PMMA microspheres, fabricated from controllably evolved W/O/W emulsions. This photo, kindly provided by Xiangming Na (Prof. Guanghui Ma's group in Chinese Academy of Sciences), was selected by the internet polling on the website of ASEPFPM 6. The related topic can be found in P-04.

**ASEPFPM 6
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 (Technical Program: 19:00 – 20:45)

Registration 16:00 – 19:00 3rd Floor, in front of Happiring Hall

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? 2 <u>Masayoshi Okubo</u> Nanjing Tech University, China
19:45 1-02S	On the Advances of Particle Formation Mechanism in the Heterophase Polymerization 4 <u>Henmei Ni</u> Southeast University, China
20:10 1-03S	Effect of Chain Transfer to Polymer in Conventional and Living Emulsion Polymerization 6 <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 10 <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) 14 <u>Hideto Minami</u> ¹ , Masayoshi Tokuda ^{1,2} , Mitsuyoshi Yamane ¹ , Stuart C. Thickett ^{2,3} , Per B. Zetterlund ² 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 16 <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 18 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	20
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	22
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	24

12:05

Lunch Meeting (Well 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	26
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	30
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	32
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	34

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	36
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	38
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 , Hirotomo Maeda ¹ , Yuta Saito ² , Koutaro Kanetaki ² , Chuken O ² , Atsushi Kameyama ¹ , Haruma Kawaguchi ¹ ¹ Kanagawa University, Japan; ² Nippon Nyukazai Co., Ltd., Japan	40

16:15	2-15A	Structural Control of Hydrogel Microparticles Using Aqueous Two Phase Separation within Emulsion Droplets	42
		<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	44
		<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: Seigou 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	48
		<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	50
		<u>Kamonchanok Thananukul</u> 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	54
		<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	56
		<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	58
		<u>Nut Churinthorn</u> 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	60
		Hang Jiang, <u>To Ngai</u> The Chinese University of Hong Kong, China	
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		<u>Suguna Perumal</u> , Hyang Moo Lee, <u>In Woo Cheong</u> Kyungpook National University, Korea	

11:50	3-08B	Preparation and Characterization of Chitosan Dispersed Poly(lactic acid) Blending and Grafting with Graphene Oxide Composites	64
		Siti Noor Kamilah Mohamad 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 (Well Aossa, Aossa, 3F)

Chair: Syuji Fujii

13:30	3-09S	Self-Organization of Soft Hydrogel Microspheres at the Air/Water Interfaces	66
		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	68
		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	70
		Takumi Watanabe 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	72
		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	74
		Tetsuya Yamamoto ¹ , Yuya Takahashi ¹ , Katsumasa Uematsu ¹ , Kenji Arakawa ² ¹ Nagoya University, Japan; ² Hiroshima University, Japan	

15:05

Break

Chair: Daisuke Suzuki

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		Hisato Kawashima ¹ , Hiroyuki Mayama ² , Yoshinobu Nakamura ¹ , Syuji Fujii ¹ Osaka Institute of Technology, Japan; ² Asahikawa Medical University, Japan	
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		Hyunseung Yang, 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	84
		Zhoulu Wang, Xiang Liu Nanjing Tech University, China	
16:20	3-17B	Biomimetically Engineered Demi-Bacteria Potentiate Vaccination Against Cancer	88
		Wei Wei, Guanghui Ma Chinese Academy of Sciences, China	

Chair: Hidetaka Tobita

16:35	3-18S	Anisotropic Hybrid Polymer Particles with Well Defined Morphologies	90
		Pramuan Tangboriboonrat, Waraporn Wichaita, Narissara Sudjaipraparat, Sukanya Nuasaen, Chariya Kaewsaneha Mahidol University, Thailand	

17:00	3-19S	The Fourth Generation of Emulsion Polymerization: from the Past, to the Future ... 92
		<u>Jung Hyun Kim</u>
		Yonsei University, Korea

17:25

Break

19:00

Banquet (Yours Hotel, 4F)
Including ceremony of Students' 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

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	Kobe University, Japan		
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	Chinese Academy of Sciences, China		
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	Okayama University, Japan		
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	¹ Osaka Institute of Technology, Japan; ² Asahikawa Medical University, Japan		
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	¹ Shinshu University, Japan; ² Tokyo Institute of Technology, Japan		
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