

Conference Program of IWEAYR-12

Time	
8th February 2017	
13.00 - 18.00	Registration (Reception lobby at the Ocean wing tower, Ambassador City Jomtein, Pattaya)
18:30 – 20.30	Welcome reception (Blue Sapphire room)
9th February 2017	
8.00 – 9.00	Registration and poster set-up (Emerald room)
9.00 – 9.20	Opening Ceremony (Emerald room)
9.30 – 10.20	Keynote Speaker: Topic. Toughening PLA and PLA/Thermoplastic Starch Films based on Isotropically Small Crystallites initiated by Biaxial-stretching presented by Prof. Dr. Suwabun Chirachanchai, Chulalongkorn University, Thailand.
10:20 -10.30	Coffee Break
Oral Presentation (Session I): Chair: Prof. Dr. Santi Meansiri: Co-chair: Dr. P.Pungboon Pansila	
10.30 - 10. 45	O1: Phase Separation and Transformation of Polymer Nanostructures via Imprinting Methods. Paritat Muanchan Takashi Kyotani and Hiroshi Ito, Yamagata University, Japan
10.45 - 11.00	O2: Evaluation of the Degree of Dispersion for Polypropylene nanocomposites with Large Amplitude Oscillatory Shear Measurement via FT-Rheology. Minguen Kim and Kyu Hyun, Pusan National University, Korea
11.00 - 11.15	O3: Interrelation between structure and property of electric field-induced graphene networks in poly (lactic acid). Oh Min Kwon, Hiroshi Watanabe, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.
11.15 - 11.30	O4: ZnO Surface Modification by Nano-Silver Coating via Benzoxazine Oxidation to Enhance Photocatalytic Activity and Antimicrobial Property. Kankavee Sukthavorn, Nollapan Nootsuwan, Suchada Jongrungruangchok, Nattamon Koonsaeng, Apirat Laobuthee and Chatchai Veranitisagul. Rajamangala University of Technology Thanyaburi, Thailand.

11.30 - 11.45	O5: Chemical Gels Cross-linked by Reversible Covalent Bonds: Toward Changes in Network Sizes and Self-healing Materials. Yoshifumi Amamoto, Hideyuki Otsuka, Atsushi Takahara and Krzysztof Matyjaszewski, Nagoya University, Japan.
11.45 - 12.00	O6: Phenol Adsorption On Zeolite NaY Synthesized From Rice Husk Silica. Jittima Kulawong and Sittichai Kulawong, Vongchavalitkul University, Thailand.
12.00 - 13.00	Luncheon Seminar by Coax Group Corporation Co.,Ltd.
Oral Presentation (Session II): Chair: Prof. Dr. Kyu Hyun: Co-chair: Dr. Wissawat Sakulsaknimit	
13.00 - 13.15	O7: Quantifying Dispersion of Spherical Nanoparticles in Polymer Nanocomposites by Rheology Analysis. Wei You, Wei Yu and Chixing Zhou, Shanghai Jiao Tong University, China.
13.15 - 13.30	O8: Slip and Roughness at a ETFE/PS Interface during Coextrusion. Takuya Ito, Sathish K. Sukumaran and Masataka Sugimoto, Yamagata University, Japan.
13.30 - 13.45	O9: Rheology and DSC of the aqueous solutions of finely characterized carboxymethylated curdlan with different degrees of substitution. Zhixiang Cai Xiaomin Zhao and Hongbin Zhang, Shanghai Jiao Tong University, China.
13.45 - 14.00	O10: Numerical modelling for diffusiophoresis of colloidal particles with explicitly solving solvent flow and solute density fields. Satoshi Katsumata, Norihiro Oyama, John J. Molina, Takashi Taniguchi and Ryoichi Yamamoto, Kyoto University, Japan.
14.00 - 14.15	O11: Dynamics of the lipid bilayer membrane induced by an external stimulation. Kosuke Teshigawara and Takashi Taniguchi, Kyoto University, Japan.
14.15 - 14.30	O12: Analysis of Unyielded Region inside Slot Coating Flows. Kwanhong Do, Kyoungun Shin and Jaewook Nam, Sungkyunkwan University, Korea.
14.30 - 14.45	O13: Pressure Effect on the Performance of Comb-like Copolymers to Improve the Flowability of Waxy Crude Oil. Tongshuai Wang, Tao Li, Jun Xu, Li Li and Xuhong Guo, East China University of Science and Technology, China.

14.45 - 15.00	Coffee Break
Oral Presentation (Session III): Chair: Prof. Dr. Masataka Sugimoto: Co-chair: Dr. Malinee Promkatkaew	
15.00 - 15.15	O14: Network Structure of Wormlike Micelle in Turbulent Flow. Naoto Oba and Tadashi Inoue, Osaka University, Japan.
15.15 - 15.30	O15: DPD Simulations of Entangled Polymers Under Fast Shear. Ankita Pandey and and Yuichi Masubuchi, Nagoya University, Japan.
15.30 - 15.45	O16: Collective Dynamics of Active Systems: the role of particle asymmetry. Kosuke Matsui and John Jairo Molina, Kyoto University, Japan.
15.45 - 16.00	O17: Dynamics and Structure of Janus Particles. Tatsuya Okura and John Jairo Molina, Kyoto University, Japan.
16.00 - 16.15	O18: Apoptotic Path of Gyroid to Gyroid Transition in Temperature Drop. Koudai Suzuki and Shigeru Okamoto, Nagoya Institute of Technology, Japan.
Short Oral Presentation (Session I) : Chair: Dr. Thanitt Tungcharoen	
16.15 - 16.20	P1: Atomistic modelling and rheological behavior of cellulose and poly(ethylene glycol) blends in ionic liquid. Adisak Takhulee and Yoshiaki Takahashi, Udon Thani Rajabhat University, Thailand.
16.20 - 16.25	P2: Elasto-inertial Particle Focusing From The Square Microchannel Using DNA Viscoelasticity. Bookun Kim and Ju Min Kim, Ajou University, Korea.
16.25 - 16.30	P3: Effect of concentration on linear viscoelasticity of XG solution. Chibaek Kim, Sang Hun Lee, Mikyung Kwon and Kwang Soo Cho, Kyungpook National University, Korea.

16.30 - 16.35	P4: Numerical Simulations for Flow Dynamics of Exhaust Gas in Diesel Particulate Filter (DPF) Systems. Da Young Lee, Gi Wook Lee, Kyu Yoon, Byoungjin Chun and Hyun Wook Jung, Korea University, Korea.
16.35 - 16.40	P5: Reaction Characteristics of Two Reactive Micro-Droplets. Daichi Okada, Kento Nakatani, Ruri Hidema, Hiroshi Suzuki Yoshiyuki Komoda, and Kosuke Suzuki, Kobe University, Japan.
16.40 - 16.45	P6: Large amplitude oscillatory shear of polymer blends with dynamic asymmetry PCL/SAN. Di Sun and Wei Yu, Shanghai Jiao Tong University, China.
16.45 - 16.50	P7: Elastic effect of dilute polymer solution on the microbubble generation. Dong Young Kim, Tae Soup Shim and Ju Min Kim, Ajou University, Korea.
16.50 - 16.55	P8: Molecular dynamics simulation of 1,4-cis-polybutadiene in vicinity of glass transition. H. Takata, Y. Amamoto, T. Yamamoto and Y. Masubuchi, Nagoya University, Japan.
16.55 - 17.00	P9: Rheological properties and baking qualities of pure rice bread depending on molecular architecture of rice starch. Hiroko Yano, Tomonori Koda, Ken Miyata, Taichi Nishio, Naoko Fujita and Akihiro Nishioka, Yamagata University, Japan.
Short Oral Presentation (Session II): Chair: Dr. Sunan Kitjaruwankul	
17.00 - 17.05	P10: Fabrication of mechanoluminescence composite wheels using injection molding. Hyeon Kyeong Kim and Young Seok Song, Dankook University, Korea.
17.05 - 17.10	P11: Pickering emulsions stabilized by clays and their rheological properties. Hyun Ji Kim, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.
17.10 - 17.15	P12: Rheological properties and microstructure of bimodal systems studied by Brownian dynamics simulation. Jae Hwan Jeong, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.

17.15 - 17.20	P13: Polymer Dynamic Simulation Using Modified Brownian Dynamics Method. Jasrena Rohanapi, Mohamad Shukor Talib and Nurul Annasuha Mohd Baharudin, Universiti Teknologi Malaysia, Malaysia.
17.20 - 17.25	P14: Velocity Profiles in Planar Channel Flow of FENE-P Viscoelastic Fluids. Jin Seok Park, Yong Woo Lee, Won-Gi Ahn and Hyun Wook Jung, Korea University, Korea.
17.25 - 17.30	P15: Chemorheological behavior of epoxy and curing agents in high pressure resin transfer molding. Jin Soo Ahn, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.
17.30 - 17.35	P16: Injection Molding of Aliphatic Polyketone-Based Composites. Jiwon Jeong and Young Seok Song, Dankook University, Korea
17.35 - 17.40	P17: Polydopamine-Assisted Electroless Metallization to Prepare Highly Conductive Polystyrene-Silver Core-Shell Particles. Jun Young Kim, Jae Sang Park, Jong Heon Lee and Seong Jae Lee, The University of Suwon, Korea.
17.40 - 17.45	P18: Incorporation of Polydopamine-Coated Carbon Nanotubes to Polymerized High Internal Phase Emulsions to Prepare Conductive Foams. Jung Mock Kim, Jae Phil Song, Jong Heon Lee, Moo Hyun Cho and Seong Jae Lee, The University of Suwon, Korea.
17.45 - 17.50	P19: The effects of a secondary polymer on structure and rheological properties of poly (lactic acid) (PLA) / precipitated calcium carbonate (PCC) composites. Jung Myung Lee, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.
17.50 - 17.55	P20: Applications of Monte Carlo Method to Nonlinear Regression of Rheological Data. Junghaeng Lee, Sangmo Kim, Chibaek Kim, Kwang Soo Cho, Sihyun Kim and Jung-Eun Bae, Kyungpook National University, Korea.
17.55 - 18.00	P21: Inertio-elastic flow instabilities of dilute and semi-dilute polymer solution in 90° micro-bending channel. Junghee Kim, Sun Ok Hong and Ju Min Kima, Ajou University, Korea.
18.30 – 20.30	Dinner

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Short Oral Presentation (Session III): Chair: Dr. Natthida Rakkapao

8.30 – 8.35	P22: Rheological and Physical Properties of Deasphalted Oil Produced from Solvent Deasphalting. Sangcheol Shin, Jung Moo Lee, Ji Won Hwang, Hyun Wook Jung and Ki Bong Lee, Korea University, Korea.
8.35 – 8.40	P23: Facile way to produce hollow mesoporous silica particles. Kiju Um and Kangtaek Lee, Yonsei University, Korea.
8.40 – 8.45	P24: Effects of Relaxation Time on LLDPE Structure Evolution in Shear Flow. Kun Li and Go Matsuba, Yamagata University, Japan.
8.45 – 8.50	P25: Structural changes of DNA-histone complexes in various ionic strength and species. Kyoji Natsume, Yoshifumi Amamoto, Yuichi Masubuchi and Tetsuya Yamamoto, Nagoya University, Japan.
8.50 – 8.55	P26: Interactions between Spherical Polyelectrolyte Brushes in Concentrated Aqueous Dispersion by Means of Rheology, WAXS and SAXS. Yunwei Wang, Li Li and Xuhong Guo, East China University of Science and Technology, China.
8.55 – 9.00	P27: Improvement of processability and mechanical properties of Low-grade Cellulose Resources by Blending a Small Amount of High-DP Cellulose. Liu Jiajian, Wu Jin, Liu Chenyang and Zhang Jun, Chinese Academy of Sciences, China.
9.00 – 9.05	P28: Frictional Behavior of banana skin and agarose gel. M. Kuze, Y. Masubuchi and T. Yamamoto, Nagoya University, Japan.
9.05 – 9.10	P29: Styrene-co-Methacrylic Acid Affecting Melt Rheology of Ethylene Ionomer. Mei Takaki, Tomonori Koda, Ken Miyata, Taichi Nishio, Yuki Aizawa and Akihiro Nishioka, Yamagata University, Japan.
9.10 – 9.15	P30: Curing Characteristics of Epoxy Films for Amphiphilic Coating Properties. Na Hee Kim, Kevin Injoe Jung, Dong Geun Lee, Bumsang Kim and Hyun Wook Jung, Korea University, Korea.

9.15 – 9.20	P31: Rheological Property and Hydrogen Bonding Structure of Polycarbonate-Based Polyurethane. Naoya Miyawaki, Osamu Yamane, Osamu Urakawa and Tadashi Inoue, Osaka University, Japan.
9.20 – 9.25	P32: Analysis of Primitive Path Algorithms in Simple Grid Model. Nurul Annasuha Mohd Baharudin, Mohamad Shukor bin Talib and Jasrena Rohanapi, Universiti Teknologi Malaysia, Malaysia.
9.25 – 9.30	P33: Application of Fixed-Point Iteration to the Calculation of Molecular Weight Distribution from Linear Viscoelastic Data. Sangmo Kim and Kwang Soo Cho, Kyungpook National University, Korea.
9.30 – 9.35	P34: Applications of Numerical Inversion of Laplace Transform to Creep Ringing. Sihyun Kim and Kwang Soo Cho, Kyungpook National University, Korea.
9.35 – 9.40	P35: Phenol Hydroxylation Catalyst By Using Iron Support On Mordenite. Sittichai Kulawong and Jittima Kulawong, Nakhon Ratchasima Rajabhat University, Thailand.
9.40 – 9.45	P36: Inertio-elastic Mixing in a Gear-shaped Microchannel. Sun Ok Hong, Ki-Su Park, Chang-Soo Lee and Ju Min Kim, Ajou University, Korea.
9.45 – 9.50	P37: Viscoelastic Properties of Arabinogalactan / Ionic Liquid Solution. Taiyo Mori and Tadashi Inoue, Osaka University, Japan
9.50 – 9.55	P38: Solidification of Nylon 6 and Polypropylene Characterized by Viscoelastic Measurement. Takaya Hirayama , Tetsuya Yamamoto and Yuichi Masubuchi, Nagoya University, Japan.
9.55 – 10.00	P39: Lattice theory of disjoining pressure for foam films adsorbing polyelectrolytes. Takuma Isoda, Yuichi Masubuchi and Tetsuya Yamamoto, Nagoya University, Japan.
10.00 – 10.05	P40: Fabrication of poly(acrylonitrile) (PAN) / titanium dioxide (TiO ₂) composites by sol-gel electrospinning: The effect of TTiP on alkaline solid polymer electrolyte. Tanissara Pinijmontree, Yoshiaki Takahashi and Santi Meansiri, Rajamangala University of Technology Lanna Tak, Thailand.

10.05 – 10.10	P41: Structure-property Relationships of Biaxially Stretched Cellulose Films. Wan Jiqiang, Song Guangjie, Wu Jin and Zhang Jun, Chinese Academy of Sciences, China.
10.10 – 10.15	P42: Ultrasonic Irradiation Dispersion Model of Fine Particles. Wataru Fukushima, Hiroshi Suzuki, Ruri Hidema and Yoshiyuki Komoda, Kobe University, Japan.
10.15 – 10.20	P43: Studies on Rheology and Spinnability of Silk Fibroin Solutions. Wei Yanxia, Dong Qinglin, Yao Jinrong, Shao Zhengzhong and Chen Xin, Fudan University, China.
10.20 – 10.25	P44: Controlled Gallic Acid Permeation from Shellac and Gelatin Hydrogel. Supanit Chungyampin and Sumonman Niamlang, Rajamangala University of Technology Thanyaburi, Thailand.
10.25 – 10.30	P45: Facile and Efficient Integration of Photosensitizer on Upconversion Nanoparticles for Photodynamic Therapy. Yan Liu, Yawen Xu, Dexin Chen, Kang Sun, Guangdong Zhou and Ke Tao, Shanghai Jiao Tong University, China.
10.30 - 10.40	Coffee Break
10.40 – 10.45	P46: Nanoparticle induced gelation in highly size asymmetric binary suspensions: effect of mixing condition. Yoon Se Jung, Joo Young Lee, Seung Jae Lee, Kyung Hyun Ahn and Seung Jong Lee, Seoul National University, Korea.
10.45 – 10.50	P47: Microfluidic Rheometer: Measuring the Relaxation Time of Viscoelastic Material using Particle Migration. Yoonyoung Jung and Ju Min Kim, Ajou University, Korea.
10.50 – 10.55	P48: A simple preparation of Au/mesoporous silica yolk/shell particles and their catalytic applications. Young-Geon Song, Hochan Chang and Kangtaek Lee, Yonsei University, Korea.
10.55 – 11.00	P49: Interfacial rheology of polysaccharide/pea protein at vegetable oil/water interface. Yue Wei and Hongbin Zhang, , Shanghai Jiao Tong University, China.

11.00 – 11.05	P50: Melt rheological behavior and batch foaming of modified PMMA. Yuki Kawahara¹, S.K.Sukumaran, Masataka Sugimoto, Yuichi Shindo and Kohhei Nishino, Yamagata University, Japan.
11.05 – 11.10	P51: Effect of elongational viscosity on interfacial instability on polyethylene coextrusion flow. Yusuke Mitsui, S.K. Sukumaran and Masataka Sugimoto, Yamagata University, Japan.
11.10 – 11.15	P52: Diffusion of particles in polymer melts under fast shear flow: a simulation study. Yutaro Mori and Jun-ichi Takimoto, Yamagata University, Japan.
11.15 – 11.20	P53: Rheological hysteresis and yielding transition in a yield stress fluid. Zhiwei Liu, Wei Yu and Chixing Zhou, Shanghai Jiao Tong University, China.
11.20 – 11.25	P54: The effect of rice starch on mechanical properties of polystyrene and rice bran composite. Apiched Savasdipol, Sumonman Niamlan and Waroonsiri Jakbutr, Rajamangala University of Technology Thanyaburi, Thailand.
11.25 – 11.30	P55: Rheological analysis of core-crosslinking Pluronic F127 triblock copolymer aqueous solution in the presence of semi-interpenetrating network (sIPN). Xiaolei Li, Eunkyong Park, Minseok Kwak and Kyu Hyun, Pusan National University, Korea.
11.30 – 11.35	P56: Electrorheological characteristics of Sepiolite suspensions. So Yeon Ahn and Young Seok Song, Dankook University, Korea.
11.35 -12.00	Poster Presentation
12.00 - 13.00	Lunch
13.00 - 16.30	Excursion activity
18.30 - 22.00	Banquet and Closing ceremony
11th February 2017	
8.30 - 16.30	Free discussion and departure