

ORAL Presentation Program of AWPP2009

December 02 (Wed.), 2009

| | | Grand Ball Room | Salon III & Salon IV | | |
|-------------|--|---|----------------------|--|--|
| 08:50 | Registration (Foyer of Grand Ball Room) | | | | |
| 09:20 | Opening Ceremony (Grand Ball Room) | | | | |
| 09:35-10:35 | [Plenary Lecture : Malaysia] (Grand Ball Room) <p style="text-align: center;">Fumihiko Konishi (Texchem Group, Malaysia) The Role and Contributions of Polymer Processing in the History of Malaysian Plastics Industry and its Development</p> <p style="text-align: center;">Chairperson: Prof Masahiro Ohshima</p> | | | | |
| 10:35 | Break Time & Exhibition (Foyer of Grand Ball Room) | | | | |
| 10:50-11:20 | Grand Ball Room | | 10:50-11:10 | Salon III and Salon IV | |
| | Extrusion & Compounding | | | Rheology & Rheometry | |
| | | Chairperson: Associate Prof Dr Azhar b. Abu Bakar Ptof. Tadamoto Sakai | | Chairperson: Dr. Zulkifli b. Mohamad Ariff Dr. Takeharu Isaki | |
| | A-101 | [KEYNOTE A1] Hiroyuki Kobayashi (Polyplastics Co.Ltd) Recent Innovations in High Performance Engineering Plastics | B-101 | Masayuki Yamaguchi (JAIST, Japan) Structure and rheological properties of binary blend of polypropylene and acrylic modified PTFE | |
| 11:20-11:40 | A-102 | Tadamoto Sakai (Shizuoka University) Recent Progress in Melt Compounding Technology for PNC Using a Twin Screw Extruder | B-102 | Robert Marsh (Malvern Instruments) Rheology of Heterogeneous Polymer Melts | |
| 11:40-12:00 | A-103 | Winyu Tanthapanichakoon (Thai Polyethylene Co. Ltd.) Melt Index Change of HDPE-CB Composite during Compounding and Profile Extrusion | B-103 | Piyawit Koombhongse (MTEC, Thailand) Plasticizing Effect and Electrospinnability of Chitosan Derivatives/PVA | |
| 12:00-12:20 | A-104 | Chan Kah Fai (Texchem Polymer Sdn Bhd) The Role of Organoclay on the Flow Behavior and Electrical Properties of Carbon Nanotube/ Polymer Composites | B-104 | [KEYNOTE B1] Masataka Sugimoto (Yamagata University) Rheological Behavior and Structure of Multi-component Polymer System | |
| 12:20-12:40 | A-105 | Yee Kok Leong (Toray Plastics (M) Sdn Bhd) Transparent grade ABS- an alternative to other existing similar grade of transparent or translucent plastics material | B-105 | [KEYNOTE B2] Charoen Nakason (Prince of Songkla University) Rheological of Natural Rubber | |

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|---------------------------------------|--|--|-------------|--|---|
| 12:40-13:00 | A-106 | Sahrim Ahmad (Universiti Kebangsaan Malaysia) Processing of Rubber Toughened Epoxy Nanocomposites | | | Blends: Compatibilization, Co-continuity prediction and Phase inversion detection |
| Lunch Break (G Café) | | | | | |
| 14:00-14:30 | Grand Ball Room | | 14:00-14:20 | Salon III and Salon IV | |
| | Fiber Spinning & Film Chairperson: Associate Prof. Dr. Azlan b. Ariffin Associate Prof. Hiroshi Ito | | | Novel Material & Processing & Process Optimization 1 Chairperson: Professor Lam Yee Cheong Associate Prof. Seiichi Kawahara | |
| | A-107 | [KEYNOTE A2] Takeharu Isaki (Mitsui Chemicals) Simulations of pelletize, flat die and film casting with rheological properties. | | B-106 | Chantara Theyy Ratnam (Agensi Nuklear Malaysia) Radiation Processing of Natural Rubber |
| 14:30-14:50 | A-108 | Masayuki Haruta (Toyobo Co. Ltd.) Study on stretching methods of biaxially stretched co-polyester film that has uniaxially heat shrinkage property | 14:20-14:40 | B-107 | Hiroto Murakami (Nagasaki University) Thermal properties of side chain crystalline acryl polymers |
| 14:50-15:10 | A-109 | Toshiro Yamada (Kanazawa University) Measurement of Diffusion Coefficient of Acetone in Cellulose Acetate for a Dry Spinning Process | 14:40-15:10 | B-108 | [KEYNOTE B3] Shu-Lin Bai (Peking University) Application of nanoindentation method to different materials and relevant affecting parameters |
| 15:10-15:30 | A-110 | Sasitorn Au-jean (Klöckner Pentaplast (Thailand) Ltd) New Pharmaceutical Packaging Trend and kp High Barrier Films Innovation | 15:10-15:40 | B-109 | [KEYNOTE B4] Krisda Suchiva (MTEC, Thailand) |
| Break Time (Foyer of Grand Ball Room) | | | | | |
| 15:45-16:15 | Grand Ball Room | | 15:45-16:05 | Salon III and Salon IV | |
| | Nanotechnology Chairperson: Associate Prof Dr Mariatti bt. Jaafar Associate Prof. Masaya Kotaki | | | Recycle and Environmental Techniques Chairperson: Dr Nadras bt. Othman Associate Prof. Yoichi Tominaga | |
| | A-111 | [KEYNOTE A3] Jang-Kyo Kim (Hong Kong Univ. of Sci. & Tech.) Conductive polymers containing hybrid carbon nanotubes, carbon black and graphite nanoplates | | B-110 | Azman Hassan (Universiti Teknologi Malaysia) Preparation and Characterization of LLDPE Toughened Polylactic Acid |

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| 16:15-16:35 | A-112 | Zhang Xiwen (Kyoto Institute of Technology) Stereocomplex Formation of Poly(L-lactide) and Poly(D-lactide) via Electrospinning | 16:05-16:25 | B-111 | Manisara Phiriyawirut (KMUTT, Thailand) Alpha-chitin Reinforced Tapioca Starch-based Composite Foam |
| 16:35-16:55 | A-113 | Jessada Wong-on (Pathumwan Inst. of Technology) Toughening of Polypropylene by elastomeric nano-particles | 16:25-16:45 | B-112 | Smith Thitithanasarn (Kyoto Institute of Technology) Mechanical Performance Evaluation of Natural Fiber Reinforced Poly(lactic acid) Textile Insert Moldings |
| 16:55-17:15 | A-114 | Yoshihiro Yamashita (The Univ. of Shiga Prefecture) Electrospinning Technique and View to the Mass Production of Nanofiber | 16:45-17:05 | B-113 | Sapuan Salit (Universiti Putra Malaysia) Heat treatment and recyclability of sugarcane bagasse reinforced PVC composites |
| 17:15-17:35 | A-115 | Shinsuke Nagamine (Kyoto University) Hollow TiO ₂ Microstructures Templated by Electrospun Droplets of Polymer Aqueous Solutions | 17:05-17:25 | B-114 | Ishak Ahmad (Universiti Kebangsaan Malaysia) Unsaturated Polyester Resin from Poly(ethylene terephthalate) waste: Effects of liquid natural rubber and glass fiber mats on its properties |
| 17:35-17:55 | A-116 | Seiichi Kawahara (Nagaoka Univ. of Technology) Morphology and Mechanical Properties of Soft Material with Nano-matrix Structure | 17:25-17:45 | B-115 | Prayoon Surin (KMUTT, Thailand) The green composites from coil fiber and poly(lactic acid): Physical and mechanical properties evaluation |
| 18:00-19:00 | Poster Presentation (Foyer of Grand Ball Room) | | | | |
| 19:00 | Break Time | | | | |
| 19:30-22:00 | Banquet (Grand Dinner of AWPP2009) | | | | |

ORAL Presentation Program of AWPP2009

December 03 (Thu.), 2009

| | Grand Ball Room | | Salon III and Salon IV | |
|-------------|--|---|--|--|
| 08:30 | Registration (Foyer of Grand Ball Room) | | | |
| 09:00-10:00 | [Plenary Lecture : Japan] (Grand Ball Room) Toshitaka Kanai (Idemitsu Kosan Co. Ltd., Japan) Evaluation of Structure Development and Stretchability during the Stretching Process for Various Polypropylenes Chairperson: Prof Rozman Hj. Din | | | |
| 10:00 | Break Time (Foyer of Grand Ball Room) | | | |
| 10:15-10:45 | Grand Ball Room | | Salon III and Salon IV | |
| | Injection Molding 1 | | Alloys, Blend and Composites | |
| | Chairperson: Associate Prof. Dr. Charoen Nakason Dr. Leong Yew Wei | | Chairperson: Professor Jang-Kyo Kim Associate Prof. Asami Nakai | |
| | A-201 | [KEYNOTE A4] Hidetoshi Yokoi (The University of Tokyo) Recent Progress of In-mold Visualization Technologies for Fine Pattern Replication Process in Injection Molding | 10:15-10:35 | B-201 |
| | | | | Masayuki Yamaguchi (JAIST, Japan) Structure and mechanical properties for PLA blends having fibrous dispersion |
| 10:45-11:05 | A-202 | Daisuke Yoshida (The University of Tokyo) High-Magnification Visualization of Melt Filling Behaviors in Fine-Pattern Replication Molding using New Microscope-Installed Mold | 10:35-10:55 | B-202 |
| | | | | Hiroshi Ito (Yamagata University) Structure and thermal property of Al ₂ O ₃ fiber filled composites in injection compression molding |
| 11:05-11:25 | A-203 | Chao-Tsai Huang (CoreTech System Co., Ltd.) Using three dimensional thickness control method to manage warpage in injection molding | 10:55-11:15 | B-203 |
| | | | | Azanam Shah Hashim (Universiti Kuala Lumpur) Styrene-Modified Natural Rubber as Compatibilizer/Modifier for Some PP-Based Blends |
| 11:25-11:45 | A-204 | Ichirou Nishi (Kyoto Institute of Technology) New functions of thermoplastic elastomer based sandwich injection moldings | 11:15-11:45 | B-204 |
| | | | | [KEYNOTE B5] Rozman Hj. Din (Universiti Sains Malaysia) The effect of chemical modification of montmorillonite on tensile and flexural properties of ultra-violet radiation-cured biocomposites from kenaf |
| 11:45-12:05 | A-205 | Yuan-Jung Chang (CoreTech System Co., Ltd.) Simulations and Verifications of Optical Injection Molded Parts | 11:45-12:05 | B-205 |
| | | | | Aziz Hassan (Universiti Malaya) Thermal and Mechanical Properties of Injection Moulded Short Glass/Short Carbon Hybrid Fibre Reinforced Polyamide 6,6, Composites |

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| 12:05-12:25 | A-206 | Koji Yamada (Osaka Municipal Technical Research Institute) Evaluation of molecular orientation in injection molded polypropylene | 12:05-12:25 | B-206 | Supaporn Thumsoorn (Kyoto Institute of Technology) On the Paintability of Injection Molded Recycled PET/Recycled PP Blend filled with CaCO ₃ |
| 12:25-12:45 | A-207 | Warunee Klinklai (Rajamangala University of Technology) Development a Plastic Waste from Soft Drink Bottle Polyethylene terephthalate for Textile Fiber Application | 12:25-12:45 | B-207 | Toshiyuki Yasuhara (Tokyo Institute of Technology) Improvement of mechanical properties of CNT-composites with high aspect ratio CNT |
| 12:45-13:05 | A-208 | Patcharee Larpsuriyakul (MTEC, Thailand) Comparison of 2.5D and 3D Injection Molding Simulation of Flat Plates with Non-Uniform Part Thickness | 12:45-13:05 | B-208 | Puteri Sri Melor Megat Yusoff (Universiti Teknologi Petronas) Assessment of Fiber Damage during Processing and its Relation to Mechanical Properties of Natural Fiber Reinforced Plastics |
| 13:05 | Lunch Break (G Café) | | | | |
| 14:00-14:30 | Grand Ball Room | | 14:00-14:20 | Salon III and Salon IV | |
| | Structure and Properties, and their Evolution | | | Emerging Polymer Processing Technologies | |
| | | Chairperson: Associate Prof. Dr. Hazizan b. Md. Akil Associate Prof. Atsushi Yokoyama | | | Chairperson: Dr Zulkifli b. Ahmad Associate Prof. Takushi Saito |
| | A-209 | [KEYNOTE A5] Lam Yee Cheong (Nanyang Tech. University) Simulation and Optimization of Plastic Injection Molding | | B-209 | Ng Chee Mang (Penchem Technologies Sdn Bhd) LED Encapsulation using Epoxy and Silicone |
| 14:30-14:50 | A-210 | Masayuki Yamaguchi (JAIST, Japan) Orientation birefringence of cellulose ester | 14:20-14:40 | B-210 | Rahmah Mohamed (University Technology MARA) Fabrication techniques of polymeric material for microelectronic and photonic applications |
| 14:50-15:10 | A-211 | Nurhafizah Abd Rahman (Kanazawa University) Influence of morphology on uniaxial tensile behavior of polyoxymethylene | 14:40-15:10 | B211 | Chee Choong Kooi (Intel Malaysia) Small is beautiful – Innovations in Microelectronics Packaging Miniaturizations |
| 15:10-15:30 | A-212 | Hiroyuki Nishimura (Osaka Gas) Evaluation of long-term performance of plastic pipes for hot water supply | 15:10-15:30 | B-212 | Patcharat Wongsriraksa (Kyoto Institute of Technology) On the Combination of Braiding and Weaving Technologies for Fabricating Continuous Natural Fiber-Reinforced Composites |
| 15:30 | Break Time (Foyer of Grand Ball Room) | | | | |

| | Grand Ball Room | | | Salon III and Salon IV | |
|-------------|---|--|-------------|--|---|
| 15:45-16:05 | Injection Molding 2 Chairperson: Associate Prof. Dr. Chow Wen Shyang Dr. Koji Yamada | | 15:45-16:05 | Novel Material & Processing & Process Optimization 2 Chairperson: Dr Azura bt. A. Rashid Dr. Hiroyuki Nishimura | |
| | A-213 | Keun Park (Seoul Nat. University of Tech.) Applications of High-Frequency Induction Heating to High-Quality Injection Molding | | B-213 | Tan Yee Chech (PETRONAS Research) Mechanical and Bonding Behaviour of Polymeric Grout as a Function of Temperature and Surface Conditions |
| 16:05-16:25 | A-214 | Lei Ti Huang (The University of Tokyo) Visual Analysis of Gate Flow Phenomenon in High Speed Injection Process | 16:05-16:25 | B-214 | Takushi Saito (Tokyo Institute of Technology) Laser Transmission Welding Technique Utilizing Change of Absorption Coefficient of Material by Moisture Adsorption |
| 16:25-16:45 | A-215 | Atsushi Yokoyama (Kyoto Institute of Technology) Multiple Optimum Design for Injection Molding Die by Nonlinear Approximation Technique | 16:25-16:45 | B-215 | K. Tokumitsu (The Univ. of Shiga Prefecture) The Effect of Adding Polysilane into Polyolefins |
| 16:45-17:05 | A-216 | Hirohito Kai (The University of Tokyo) Measurement of Melt Temperature Distributions in Y-shaped Runner Split Zone Using New Measuring Mold with Round Rotary Block Structure | 16:45-17:05 | B-216 | Lai Seng Heng (Titan Petchem (M) Sdn Bhd) Super High Clarity PP for Baby Feeding Bottle & Sport Drink Bottle |
| 17:15-17:45 | Closing Ceremony (Grand Ball Room) | | | | |

Poster Presentations:

| No. | Presenter | Affiliation | Title |
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| 1. | Hitoshi Takagi | Tokushima University | Mechanical properties of cellulose nanofiber composites |
| 2. | Yoichi Tominaga | Tokyo University of Agriculture and Technology | Development of Solid Polymer Electrolytes Using Supercritical Carbon Dioxide |
| 3. | Katsuhiko Kodama | Toyobo Co. Ltd. | The study of surface properties in injection moldings |
| 4. | Katsuhiko Kodama | Toyobo Co. Ltd. | The study on the influence of a resin temperature and pressure on the surface properties of the injection moldings |
| 5. | Rahida Wati Sharudin | Kyoto University | PP/PS/PMMA (80/10/10) Ternary Polymer Blend Foaming: Morphology and Cell Structure |
| 6. | Vadee Chivatanasoontorn | Kyoto Institute of Technology | Effect of Surface Texture on Scratch Behavior of Injection Molded Plastics |
| 7. | Siti Fatimah Aminuddin | Kyoto Institute of Technology | Pellet morphology during the compounding process of recycled poly(ethylene terephthalate)/ recycled polypropylene blends |
| 8. | Bernard Chukwuemeka Ogazi-Onyemaechi | Kyoto Institute of Technology | Impact Fracture Modes of Hairline-cracked Injection Moldings of Recycled Polyethylene Terephthalate |
| 9. | Tohru Morii | Shonan Institute of Technology | Hydrothermal aging of jute/PP injection moldings |
| 10. | Yuki Makata | Kyoto Institute of Technology | Influence of Particle Size on Filler Dispersion in PMMA/Silica Micro Injection Moldings |
| 11. | Hiroshi Ito | Yamagata University | Fabrication of Micro-pattern of Quartz Glass in Injection Molding Process |
| 12. | Yoshimasa Yamamoto | Nagaoka University of Technology | Mechanical Properties of Nano-matrix structured Material |
| 13. | Mohd Amran | JAIST | Structure and rheological properties of binary blend of polypropylene and acrylic modified PTFE |
| 14. | Tadashi Yokohara | JAIST | Structure and mechanical properties for PLA blends having fibrous dispersion |
| 15. | Mohd Edeerozey A. Manaf | JAIST | Orientation birefringence of cellulose ester |

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| 16. | Manisara Phiriyawirut | King Mongkut's University of Technology Thonburi | Preparation of Natural Rubber Fine-powder from Electrospinning for Polymer Toughness Modifier |
| 17. | Prayoon Surin | King Mongkut's University of Technology Thonburi (KMUTT) | A study on effect of hardener for prepared composite wood from glutinous rice flour |
| 18. | C.Kunyawut | Rajamangala University of Technology | Study of High Voltage Insulator using Natural Rubber |
| 19. | Piyapong Buahom | King Mongkut's Institute of Technology Ladkrabang | Characterization of Cell Density with Principle of Critical Bubble Lattice and Variation of Cell Cross-Sections for Isotropic Polymeric Foams |
| 20. | Natcha Prakymoramas | National Metal and Materials Technology Center (MTEC) | The Influence of Mold Temperature on Mechanical Properties of Rigid Polyurethane Composite Foam |
| 21. | Phua Yi Jing | Universiti Sains Malaysia | Effect of Uniaxial Cold Rolling on the Structure and Properties of Poly(Butylene Succinate)/Organo-Montmorillonite Nanocomposites |
| 22. | Tham Wei Ling | Universiti Sains Malaysia | Water Absorption of Poly(methyl methacrylate)/Hydroxyapatite Composites |
| 23. | Rafiza Ramli | Penchem Industry Sdn Bhd | Synthesis of aromatic side-chain modification of polysiloxane for high refractive index |
| 24. | Nurul Mujahidah Ahmad Khairuddin | Universiti Sains Malaysia | Effect of Alkali Treatment on the Mechanical Properties of Polypropylene-Kenaf Fiber Composites |
| 25. | Adlan Akram Bin Mohamad Mazuki | Universiti Sains Malaysia | Environmental Degradation Study of Pultruded Jute Fibre Reinforced Unsaturated Polyester Composites Using Dynamic Mechanical Thermal Analysis |
| 26. | Mohd Firdaus Bin Omar | Universiti Sains Malaysia | Measurement of Dynamic Mechanical Properties of Pultruded Natural Fibre Reinforced Composites Using Split Hopkinson Pressure Bar Apparatus (Shpba) |

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| 27. | Yusriah Lazim | Universiti Sains Malaysia | Comparison on the properties of phenolic hollow microspheres (PHMS)/ woven glass fabric and woven basalt fabric filled vinyl ester composites |
| 28. | Hamizah Abd Samad | Universiti Sains Malaysia | Properties of bioactive fillers filled PMMA bone cement |
| 29. | Siti Salmi Binti Samsudin | Universiti Sains Malaysia | Processing and Compressive Strengths of Epoxy Syntactic Foam Incorporated with Epoxy Hollow Spheres |
| 30. | Nor Azura Binti Abdul Rahim | Universiti Sains Malaysia | Flow behavior of polypropylene-kaolin composites at various filler loading, temperatures and multiple extrusion cycle |
| 31. | Razif Bin Muhammed Nordin | Universiti Sains Malaysia | Tensile Properties and Morphology of Lldpe/Pva Blends Containing 3-(Trimethoxysilyl)Propyl Methacrylate As Coupling Agent |
| 32. | Nur Diyana Mohamad Zaharri | Universiti Sains Malaysia | Effect of Silane Coupling Agent on Mechanical and Morphological Properties of Polypropylene/Zeolite Composite |
| 33. | Nur Azleen Bt Azahari | Universiti Sains Malaysia | Water absorption study on PVA/corn starch blend composites |
| 34. | Sam Sung Ting | Universiti Sains Malaysia | The Effect of Electron beam irradiation on Mechanical Properties of ENR compatiblized LLDPE/soya powder blends |
| 35. | Lim Su Rong | Universiti Sains Malaysia | Fracture Toughness and Optical Properties of Epoxy/Organo-Montmorillonite Nanocomposites |
| 36. | Chang Lee Nah | Universiti Sains Malaysia | Mechanical and Morphological Properties of Epoxy Clay Hybrid Nanocomposites |
| 37. | Tay Hong Kang | Universiti Sains Malaysia | Effects of Hygrothermal Aging on Jute/Glass Fibers Reinforced Unsaturated Polyester Composites: Visual Appearance and Morphological Properties |
| 38. | Neoh Siew Bee | Universiti Sains Malaysia | Effect of different curing system on physico-mechanical and morphological of in situ vulcanization process of styrene-modified natural rubber (SNR) |

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| 39. | Rohana Y.S. | Universiti Sains Malaysia | The Effect Of Ageing On Permeability Behavior Of Toluene Through Natural Rubber |
| 40. | Dong-Gyu Ahn | Chosun University | Design of Thermal Management Mould for Computer Mouse |