

Parallel PROGRAM**BIOMAT: Biomaterials and Biomedical Polymers**

Thursday, June 30, 2016		(Day 1)
Jamjuree 2		
BIOMAT (Chair: Warayuth Sajomsang)		
11:15-11:40	BIOMAT-KN1 Functionalization of Poly(trimethylene carbonate) and Polylactide by Molecular Technology Approach	Hiroharu Ajiro <i>Nara Institute of Science and Technology, Japan</i>
11:40-11:55	BIOMAT-O1 Surface elasticity tunable gelatinous gel for manipulation of stem cell fate determination and directional cell migration	Thasaneeya Kuboki
11:55-12:10	BIOMAT-O2 PCL/PHBV blended scaffolds with primary and secondary pores for cartilage tissue regeneration	Wasana Kosorn
13:30-13:55	BIOMAT-KN2 Multifunctional Nanofibers and Nanofibrous Membranes for Environmental and Antibacterial Applications	Varol Intasanta <i>National Nanotechnology Center, Thailand</i>
13:55-14:10	BIOMAT-O3 The use of polycaprolactone and Pomacea canaliculata extract to modulate apical pulp-derived cell growth and differentiation	Fahsai Kantawong
14:30-14:45	BIOMAT-O4 Production of Recombinant Human Bone Morphogenetic Protein-2 for Bone Tissue Engineering Applications	Satrawut Charoenla
14:45-15:00	BIOMAT-O5 Multifunctional mosquito repellent textiles: A novel and practical process to sustainable mosquito-borne disease prevention	Nakarin Subjalearndee
15:00-15:15	BIOMAT-O6 Enzymatic surface modification of three-dimensional PCL scaffolds for cartilage regeneration	Tareerat Lertwimol
15:50-16:05	BIOMAT-O7 Poly(vinyl alcohol)/Silk Sericin Electrospun Nanofibers: Morphology, Crystallinity and Functional Groups Study	Sukunya Ross
16:05-16:20	BIOMAT-O8 The hydrolytic and enzymatic degradation of L- and DL-oligolactide composites	Somruethai Channasanon
16:20-16:35	BIOMAT-O9 Liposomes as Amphiphilic Carriers: Encapsulation and Stability Aspects	Misni Bin Misran
16:35-16:50	BIOMAT-O10 Potential use of Gonadotropin-releasing hormone (GnRH)-grafted Chitosan for DNA Delivery Application in Animal Reproductive System	Teerapong Yata

BIOMAT continued

BIOMAT: Biomaterials and Biomedical Polymers

Friday, July 1, 2016		(Day 2)
Jamjuree 2		
BIOMAT (Chair: Chitchamai Ovatlarnporn)		
10:25-10:50	BIOMAT-KN3 pH-Triggered Targeting Polymeric Nanocarriers: Theranostic Applications	Doo Sung Lee <i>Sungkyunkwan University Korea</i>
10:50-11:05	BIOMAT-O11 Chitosan-g-oligo(lactic acid): A Balance of Hydrophilicity-hydrophobicity of Chitosan Whisker to Obtain Nanoparticles in Water-based System and The Potential Transdermal Application	Visuta Engkagul
11:05-11:20	BIOMAT-O12 Synthesis and Characterization of Poly(vinylformamide-co-acryloylmorpholine) Hydrogels for Drug Delivery	Gareth Ross
11:20-11:35	BIOMAT-O13 Multilayer of two β -cyclodextrin polyelectrolytes on textile for controlled drug delivery	Jatupol Junthip
11:35-11:50	BIOMAT-O14 Modification of Bacterial Cellulose Scaffolds with Fibronectin-Based Proteins	Jitlada Sansatsadeekul

BIOPOL: Renewable Resources and Biopolymers

Thursday, June 30, 2016		(Day 1)
Jamjuree 1		
BIOPOL (Chair: Robert Molloy)		
15:30-15:55	BIOPOL-KN1 Particles for Biomedical Applications – Controlled Drug Delivery and Bioimaging	Loo Say Chye Joachim <i>Nanyang Technological University (NTU), Singapore</i>
15:55-16:10	BIOPOL-O1 Preparation of polysaccharide nanopolymeric micelles via solvent displacement method	Sineenat Thaiboonrod
16:10-16:25	BIOPOL-O2 Improvement of Processability and Flexibility of Stereocomplex Polylactide by Reactive Blending with Poly(ϵ -caprolactone-co-L-lactide) Copolymer	Supasin Pasee
17:10-17:30	BIOPOL-O3 Thermoplastic starch from gamma-ray irradiated starch	Pattra Janthanasakulwong

DESIGN: Molecular Design, Structure and Properties of Polymers

Thursday, June 30, 2016		(Day 1)
Ballroom B		
DESIGN (Chair: Voravee Hoven)		
13:30-13:55	DESIGN-KN1 Unifying Catalysis Through Synthesis of Hybrid Materials	Matthias Driess <i>Technical University Berlin, Germany</i>
13:55-14:20	DESIGN-KN2 Packaging Trends and Sustainable Solution	Prakaipetch Kitiyanan <i>BASF (Thai) Ltd</i>
14:40-14:55	DESIGN-O1 The Effect of Molecular Weight on The Porosity of Hypercrosslinked Polystyrene	Thanchanok Ratvijitvech
14:55-15:10	DESIGN-O2 UV-assisted synthesis of poly(L-lactide-co-glycidyl methacrylate-graft-acrylamide) for use in biomedical and environmental applications	Mijanur Rahman
(Chair: Varawut Tangpasuthadol)		
15:30-15:55	DESIGN-KN3 Gold Nanorods Stabilized by Drug-Conjugated Polymer for Synergistic Cancer Therapy	Voravee Hoven <i>Chulalongkorn University, Thailand</i>
15:55-16:10	DESIGN-O3 Sequence Length Distribution of Ethylene/1-Olefin Copolymers: Generalized Bimodality Criterion	Charut Vichitlimaporn
16:10-16:25	DESIGN-O4 Estimation of Kinetic Parameters for Ethylene Polymerization using Genetic Algorithm	Rattanawadee Tumsa
16:25-16:40	DESIGN-O5 Monte Carlo Simulation of Free Radical Polymerization in CSTR	Rungrueng Ma-in

ENERGY: Polymers for Optics, Electronics and Energy

Friday, July 1, 2016		(Day 2)
Jamjuree 1		
14:10-14:35	ENERGY-KN1 Main-Group Elements in Coordination Polymers for Energy Applications	Paul D. Lickiss <i>Imperial College, UK</i>
14:35-15:00	ENERGY-KN2 High Performance Polymeric Materials and Their Applications	Xu Li <i>Institute of Materials Research and Engineering, Singapore</i>
15:00-15:15	ENERGY-O1 Theoretical Study of H ₂ Projected on Platinum-Based Alloy Surfaces for Use in Fuel Cell	Kanchanok Kodchakorn
15:15-15:30	ENERGY-O2 Preparation and Characterizations of Highly Filled Graphite/Graphene-Polybenzoxazine Composites Bipolar Plate for Polymer Electrolyte Membrane Fuel Cell	Manlika Phuangngamphan
15:30-15:45	ENERGY-O3 Novel metal-organic perovskite of [(C ₃ N ₂ H ₅)(M(HCOO) ₃)] (M=Mn, Mg and Fe) in term of synthesis and dielectric investigation	Samanya Paramee
15:45-16:10	ENERGY-KN3 Structural Design of Benzoxazine-derived Nanoporous Carbon Electrodes for Energy Storage Devices	Thanyalak Chaisuwan <i>Chulalongkorn University, Thailand</i>

RUBCOM: Rubber and Polymer Composites

Thursday, June 30, 2016		(Day 1)
Ballroom A&B		
RUBCOM (Chair: Kannika Sahakaro)		
11:15-11:40	RUBCOM-KN1 Cross-linking That Endows Rubber with Toughness Using Rotaxane Cross-Linkers	Toshikazu Takata <i>Tokyo Institute of Technology, Japan</i>
11:40-11:55	RUBCOM-O1 Selective Localization of Rice Husk Ash Filler in ENR/TPU Blends: Influence on Rheological and Mechanical Properties	Wiphawadee Pongdong
11:55-12:10	RUBCOM-O2 Effects of Natural Rubber and Fiber Size on Sansevieria Trifasciata/High Density Polyethylene Composites	Nurzam Ezdiani Zakaria
Ballroom A		
(Chair: Ittipol Jangchud)		
13:30-13:55	RUBCOM-KN2 Petroleum-based Safe Process Oils: From Solubility Aspects to Practical Use in Carbon Black-Reinforced Rubber Compounds	Kannika Sahakaro <i>Prince of Songkla University, Thailand</i>
13:55-14:10	RUBCOM-O3 Stress Relaxation, Viscoelastic and Morphological Properties of Dynamically cured Devulcanized Rubber and Copolyester Blends : Influences of Carbon Black Loading	Boripat Sripornsawat
14:30-14:45	RUBCOM-O4 Mengkuang Fibre: Reinforcing or inert filler of NR/HDPE Biocomposites?	Azizah Baharum
14:45-15:00	RUBCOM-O5 The Rheological Property Prediction of Masticated Natural Rubbers	Cattaleeya Pattamaprom
15:00-15:15	RUBCOM-O6 The Preparation of Poly(lactic acid)-block-Natural Rubber-block-Poly(lactic acid) from Hydroxyl Terminated Natural Rubber and Poly(lactic acid) Prepolymer	Sawitri Srisuwan
(Chair: Pranee Phinyocheep)		
15:30-15:45	RUBCOM-O7 Tailoring the Oil Resistance of Natural Rubber by Chemical Modification	Sunanta Poolsawas
15:45-16:00	RUBCOM-O8 Effects of Particles Sizes and Contents of Nanosilica on Properties of Polybenzoxazine Nanocomposites	Nutthaphon Liawthanyarat
16:00-16:15	RUBCOM-O9 Preliminary Study on The Effectiveness of Cinnamon Powder Against White Rot Fungi on Main Material of Wood Plastic Composite Production	Nurul Izzaty Khalid
16:15-16:30	RUBCOM-10 Friction and Wear Properties of Polybenzoxazine Filled with Acrylonitrile-Butadiene Rubber Particle	Jakkrit Jantaramaha
16:30-16:45	RUBCOM-11 Effect of Gamma Radiation of Ultrafine Rubber on Thermal and Mechanical Properties of Polybenzoxazine Composites	Rapiphan Taewattana
16:45-17:00	RUBCOM-12 Influence of Ionic liquid on Electrical Properties and Other Related Properties of Epoxidized Natural Rubber/MWCNTs Composites	Suradet Matchawet

RUBCOM continued

RUBCOM: Rubber and Polymer Composites

Friday, July 1, 2016		(Day 2)
Ballroom A & B		
RUBCOM (Chair: Cattaleeya Pattamaprom)		
10:25-10:50	RUBCOM-KN3 Polymer Based Hybrid Composites for Energy-Efficient Applications	Schlarb, A.K. <i>University of Kaiserslautern, Germany</i>
10:50-11:05	RUBCOM-O13 Improved Properties of Natural Rubber/Reclaimed Rubber/Propylene Ethylene Copolymer Thermoplastic Vulcanizates as Affected by Modifying Methods	Witchuda Nakasan
11:05-11:20	RUBCOM-O14 Mechanical and Luminescent Properties of SrAl ₂ O ₄ :Eu ²⁺ filled NR/PP/PEC Blends	Nattakamon Chuycherd
11:20-11:35	RUBCOM-O15 Effect of Cellulose Nano Fibers from Cassava Pulp on Mechanical Properties of Vulcanized Natural Rubber Composites	Watcharin Ruangudomsakul
11:35-11:50	RUBCOM-O16 In-situ Modification of TPVs based on De-Vulcanized Rubber/Polypropylene Blends: Effect of Modifiers on Mechanical and Rheological Properties	Burhan Yusoh
Jamjuree 2		
(Chair: Kannika Sahakaro)		
14:10-14:35	RUBCOM-KN4 Magnetic Thermoplastic Natural Rubber Nanocomposite materials: Preparations and Applications	Sahrim Ahmad <i>Universiti Kebangsaan Malaysia, Malaysia</i>
14:35-14:50	RUBCOM-O17 Thermal and Mechanical Properties of DGEBA/Aliphatic Epoxy Adhesive for Aluminum Backup Board in Flexible Printed Circuit Manufacturing	Piyarat Leeium
14:50-15:05	RUBCOM-O18 Effects of Monofunctional Benzoxazine Resin on Properties of Asphalt Binder for Pavement Applications	Amornrat Saengpech

SMART: Smart and Functional Polymers

Thursday, June 30, 2016		(Day 1)
Jamjuree 1		
SMART (Chair: Panya Sunintaboon)		
11:15-11:40	SMART-KN1 Some Aspects of Stimuli Responsive Polymers and their Applications	Xiao 'Matthew' HU <i>Nanyang Technological University, Singapore</i>
11:40-11:55	SMART-O1 Development of Water-based Chitosan-maleimide Precursor for Bioconjugation: An example of Rapid Pathway for In-situ Injectable Adhesive Gel	Masahiro Mats umoto
11:55-12:10	SMART-O2 Thermal, Mechanical and Multiple-Shape Memory Properties of Benzoxazine-Urethane Copolymers	Peerawat Prathumrat
Jamjuree 1		
SMART (Chair: Anyarat Watthanaphanit)		
13:30-13:55	SMART-KN2 Polydiacetylene-Based Nanocomposite as Colorimetric Sensors	Nisanart Traiphol <i>Chulalongkorn University, Thailand</i>
13:55-14:10	SMART-O3 Simple approach to control photophysical properties of conjugated polymer nanoparticles	Rakchart Traiphol
14:30-14:45	SMART-O4 Positive-type Photosensitive s-BPDA/NTDA/4,4'-ODA Copolyimide Using Nifedipine as a Photosensitizer	Phattarin Mora
14:45-15:00	SMART-O5 Multi-responsive Molecule Based on Benzoxazine Dimers having Rotaxane System	Sorapat Niyomsin

SURF: Surface and Interface in Macromolecular Systems

Friday, July 1, 2016		(Day 2)
Jamjuree 1		
(Chair: Chonlada Ritvirulh)		
10:25-10:50	SURF-KN1 Nanoarchitectonics for the Design of Functional Materials	Daniel Crespy <i>Max Planck Institute for Polymer Research, Germany</i>
10:50-11:05	SURF-O1 Design of Scratch Resistance of Acrylic Coatings thorough Surface Segregation of Polyhedral Oligomeric Silsesquioxanes	Patcharida Chouwatat
11:05-11:20	SURF-O2 Effect of Cross-linker Structure on the Physical Properties of Porous Hydrogel Wound Dressings	Gareth Ross
11:20-11:35	SURF-O3 Paintable, multifunctional nanocoated fabrics for thin, light and durable parasol: a case study with bosang umbrella	Bunnakorn Suntamit
11:35-12:00	SURF -KN2 Self-Assembled Comb-Like Surfactant Polymers for Creation of Desirable Biomaterial Interfaces	Katanchalee Mai-ngam <i>National Metal and Materials Technology Center, Thailand</i>