

PARALLEL PROGRAM

Plenary speakers	
Date/Time/Room	Thursday, June 1 st , 2017 / 9:20-10:00 / Ballroom A & B (6 th floor)
Chair	<i>Assoc. Prof. Pranee Phinyocheep</i>
Plenary Lecture I	Structure Analyses of Rubber-filler Systems by Using Contrast Variation SANS <i>Prof. Mikihiro Takenaka</i> Kyoto University
Date/Time/Room	Friday, June 2 nd , 2017 / 9:00-9:40 / Ballroom A & B (6 th floor)
Chair	<i>Prof. Pattarapan Prasassarakich</i>
Plenary Lecture II	Research on Functional Polymers: From As-desired Properties to As-designed Structure <i>Prof. Suwabun Chirachanchai</i> Chulalongkorn University

Panel discussion & Rising stars	
Date/Time/Room	Thursday, June 1 st , 2017 / 10:30-12:00 / Ballroom A & B (6 th floor)
Moderator	<i>Assoc. Prof. Tawechai Amornsakchai</i>
Panel discussion (10:30-12:00)	The Development of Thai Plastic Industries under Thailand 4.0 <i>Prof. Sirirug Songsivilai</i> National Research Council of Thailand <i>Dr. Kriengsak Wongpromrat</i> Plastics Institute of Thailand <i>Dr. Kitipong Promwong</i> National Science Technology and Innovation Policy Office <i>Dr. Chaya Chandavas</i> PTT Global Chemical <i>Mr. Pravit Pornbhipatkul</i> SCG Chemicals
Date/Time/Room	Friday, June 2 nd , 2017 / 13:30-14:30 / Ballroom A & B (6 th floor)
Chair	<i>Assoc. Prof. Tawechai Amornsakchai</i>
RISESTAR-1 (13:30-14:00)	Bioplastics from renewable resources based on starch and wheat gluten <i>Asst. Prof. Kaewta Kaewtatip</i> Prince of Songkla University
RISESTAR-2 (14:00-14:30)	Bioplastic's Product Development of Thailand <i>Dr. Silapong Baiagern</i> PTT Global Chemical

Keynote Lectures & Oral Presentations	
Session	Advanced and Functional Polymers (1)
Date/Time/Room	Thursday, June 1 st , 2017 / 13.30-15:00/ Banglampoo (6 th floor)
Session Chair	<i>Assoc. Prof. Pakorn Opaprasak</i>
FUNC-KN1 (Keynote Lecture) (13:30-14:00)	Synthesis of Microcapsule Particles by Microsuspension Controlled/Living Radical Polymerization (ms CLR) in Aqueous Dispersed Systems <i>Prof. Masayoshi Okubo</i> Nanjing Tech University
FUNC-O1 (14:00-14:15)	Encapsulation of heat storage material in poly(methyl methacrylate-co-divinylbenzene) shell by microsuspension iodine transfer polymerization (ms ITP) <i>Siriluk Namwong, Masayoshi Okubo, Amorn Chaiyasat and Preeyaporn Chaiyasat</i> Chulalongkorn University
FUNC-O2 (14:15-14:30)	Synthesis of responsive polymer/corrosion inhibitor conjugates <i>Farzad Seidi, Daniel Crespy</i> Vidyasirimedhi Institute of Science and Technology
FUNC-O3 (14:30-14:45)	Temperature-Responsive Properties of Poly(PEGMA) Hydrogel Thin Films <i>Ekkachai Martwong, and Yvette Tran</i> PSL Research University

Keynote Lectures & Oral Presentations

FUNC-O4 (14:45-15:00)	Preparation of biomaterials by colloid-electrospinning <i>Ratchapol Jenjob, Kusuma Thongchaivetcharat, Arjaree Jobdeedamrong, and Daniel Crespy</i> Vidyasirimedhi Institute of Science and Technology
Session	Advanced and Functional Polymers (2)
Date/Time/Room	Thursday, June 1st, 2017/ 15.30-16:45/ Banglampoo (6th floor)
Session Chair	Assoc. Prof. Metha Rutnakornpituk
FUNC-KN2 (Keynote Lecture) (15:30-16:00)	Fabrication of Curable Poly(lactic acid-co-glycidyl methacrylate) Copolymers and their Use in Various Cosmetic and Biomedical Applications <i>Assoc. Prof. Pakorn Opaprakasit</i> Thammasat University
FUNC-O5 (16:00-16:15)	Starch-g-PLA for compatible PLA/TPS blends and its application as external stimuli responsive fiber <i>Nathapol Chinvirojsatian, Autchara Pangon, and Suwabun Chirachanchai</i> Chulalongkorn University
FUNC-O6 (16:15-16:30)	Development of Poly(Methyl Methacrylate) Products with Superhydrophobic Surfaces <i>Nithiwit Sriprasert, Preeyaporn Chaiyasat, Amorn Chaiyasat, Mantana Opaprakasit, Atitsa Petchsuk, and Pakorn Opaprakasit</i> Thammasat University
FUNC-O7 (16:30-16:45)	Magnetite nanocluster coated with thiolactone-containing copolymer: effect of alkyl substitution on magnetic separation ability and water dispersibility <i>Sujittra Paenkaew and Metha Rutnakornpituk</i> Naresuan University
FUNC-O8 (16:45-17:00)	A feasibility of developing transparent barrier coating for dye sensitized solar cells from polymer composites based on PVDC/PU reinforced with cellulose nanocrystals <i>Kitti Yuwawech, Chutimar Deetuum and Jatuphorn Wootthikanokkhan</i> King Mongkut's University of Technology (KMUTT)
Session	Bioplastics and Polymers for Sustainability (1)
Date/Time/Room	Friday, June 2nd, 2017 / 10:00-11:50 / Bangluang (7th floor)
Session Chair	Ast. Prof. Suttinun Phongtamrug
BIOP-KN1 (Keynote Lecture) (10:00-10:30)	Exploring the use of the reactive processing for polylactic acid <i>Assoc. Prof. Supakij Suttiruengwong</i> Silpakorn University
INV2-BASF (10:30-10:55)	Driving innovation and sustainable solutions in the automotive industry <i>Somsak Sophonsakulwat</i> BASF (Thai) Limited
BIOP-O1 (10:55-11:10)	Characterization and Analysis of Kenaf Based Lignin as a Potential Filler in Rubber Industry <i>Nor Anizah Mohamad Aini, Nadras Othman and Mohamad Hazwan Hussin</i> Universiti Sains Malaysia
BIOP-O2 (11:10-11:25)	Preparation and Mechanical Properties of Nonstructural Composite from Short Pineapple Leaf Materials <i>Jaruwan Namjaiyen and Taweechai Amornsakchai</i> Mahidol University
BIOP-O3 (11:25-11:40)	Effect of Winding Speed on Property of Recycled Poly(ethylene Terephthalate) (RPET) Fiber <i>Komson Sunyikhan, Nanjaporn Roungpaisan, Natee Srisawad, Takanori Nagoro, Weraporn Pivsa-Art</i> Rajamangala University of Technology Thanyaburi
BIOP-O4 (11:40-11:55)	Effect of PLA Grade and Tensile Test Methods on Tensile Property POM/PLA Multifilament <i>Atitiya Wongkorn, Weraporn Pivsa-Art, Nanjaporn Roungpaisan, Suchaline Mathurosemontri, Toshikazu Umemura, Hiroyuki Hamada, Masaki Nagata and Sommai Pivsa-Art</i> Rajamangala University of Technology Thanyaburi

Keynote Lectures & Oral Presentations	
Session	Bioplastics and Polymers for Sustainability (2)
Date/Time/Room	Friday, June 2nd, 2017 / 13:30-14:55 / Bangluang (7th floor)
Session Chair	<i>Dr. Chantiga Choochotiros</i>
BIOP-KN2 (Keynote Lecture) (13:30-14:00)	Bio-based Functional Polymers from Plant Oils <i>Prof. Hiroshi Uyama</i> Osaka University
BIOP-O5 (14:00-14:15)	Evaluation of Biodegrading Action of the Isolated Microorganisms on PHBV/PSP Biocomposites <i>Sam Sung Ting, Noorulnajwa Diyana Yaacob, Hanafi Ismail</i> Universiti Malaysia Perlis
BIOP-O6 (14:15-14:30)	The Secondary Backing Part of Green Carpet from PLA Nonwoven <i>Prapudsorn Wannid, Weraporn Pivsa-Art, Natee Srisawad, Takanori Negoro and Sommai Pivsa-Art</i> Rajamangala University of Technology Thanyaburi
BIOP-O7 (14:30-14:45)	Multi-branched polylactide containing ionomer terminal: A potential additive for fine-tuning the packing structure of polylactide <i>Thanphisit Thongsima and Suwabun Chirachanchai</i> Chulalongkorn University
Session	Biomedical Polymer (1)
Date/Time/Room	Thursday, June 1st, 2017 / 13:30-15:20 / Ballroom B (6th floor)
Session Chair	<i>Dr. Robert Molloy</i>
BMED-KN1 (Keynote Lecture) (13:30-14:00)	Bioengineering of Hydrogels for Smart Wound care <i>Prof. Bhuvanesh Gupta</i> Indian Institute of Technology
BMED-O1 (14:00-14:15)	Development of chitosan hydrogel based-scaffold with multi-functional carboxylic acids as dual functions of dissolution and crosslinking <i>Pornchanok Suwattanachai and Suwabun Chirachanchai</i> Chulalongkorn University
BMED-O2 (14:15-15:30)	Plasma Modification for Promoting Cell Biocompatibility of Medical-Grade Polymers for Use as Absorbable Nerve Guides <i>Pimwalan Techaikool, Donraporn Daranarong, Jutamas Kongsuk, Dheerawan Boonyawan, Nursyuhada Haron, William S. Harley, Kyle A. Thomson, L. John R. Foster and Winita Punyodom</i> Chiang Mai University
BMED-O3 (14:30-14:45)	Mechanical and Biological Properties of the Modified Poly (lactic acid)/Hydroxyapatite Composites by Epoxy Functional Compatibilizer <i>Warobon Noppakunmongkolchai, Naruporn Monmaturapoj, Atitsa Petchsuk, Jitlada Sansatsadeekul, Autcharaporn Srion, Satrawut Charoenla, and Katanchalee Mai-ngam</i> National Metal and Materials Technology Center
Session	Biomedical Polymer (2)
Date/Time/Room	Thursday, June 1st, 2017 / 15:30-16:45 / Ballroom B (6th floor)
Session Chair	<i>Dr. Gareth Ross</i>
BMED-KN2 (Keynote Lecture) (15:30-16:00)	Multifunctional Polymeric Micelles for targeted chemotherapy and medical imaging for liver cancer <i>Assoc. Prof. Norased Nasongkla</i> Mahidol University
BMED-O4 (16:00-16:15)	Acylated low molecular weight chitosan for sustained release of salicylic acid <i>Shu Xian Tiew and Misni Misran</i> University of Malaya
BMED-O5 (16:15-16:30)	Bacterial Cellulose Modified with Mixtures of Fibronectin and BMP-2 to Enhance Bone Cell Spreading <i>Jitlada Sansatsadeekul, Satrawut Charoenla, Warobon Noppakunmongkolchai, Ubolsree Leartsakulpanich, Katanchalee Mai-ngam</i> National Metal and Materials Technology Center

Keynote Lectures & Oral Presentations

BMED-O6 (16:30-16:45)	Evaluation of Eco-Friendly Adhesive Filled with Different Type of Natural Starches <i>Zuratul Ain Abdul Hamid, Siti Noor Fazliah Mohd Noor, Nur Syazwani Mohd Najman, Deena Deanna Azhar</i> Universiti Sains Malaysia
Session	Biomedical Polymer (3)
Date/Time/Room	Friday, June 2nd, 2017 / 10:00-11:15 / Banglampoo (6th floor)
Session Chair	Asst. Prof. Kiattikun Manokruang
BMED-KN3 (Keynote Lecture) (10:00-10:30)	Image Guided Locoregional Drug Delivery and Therapy; Drug Combined Medical Devices <i>Assoc. Prof. Sugeun Yang</i> Inha University College of Medicine
BMED-O7 (10:30-10:45)	Chondrocyte Growth and Function on Carboxymethyl Chitosan Scaffolds Fabricated by 3D Bioprinting <i>Tareerat Lertwimol, Morakot Sakulsombat, Thikamporn Uppalabat, Tiwa Pantong and Wanida Janvikul</i> National Metal and Materials Technology Center
BMED-O8 (10:45-11:00)	Synthesis and Characterization of Antibacterial and Hydrolytically Stable Dental Resin Adhesive Monomer <i>Nattawut Decha, Supitcha Talungchit, Piangkwan Saiprasert, Chittreeya Tansakul</i> Prince of Songkla University
BMED-O9 (11:00-11:15)	Enhancement of Differentiation-Induction Ability of Human Bone Morphogenetic Protein-2 Using Protein Fusion Technique <i>Satrawut Charoenla, Jitlada Sansatsadeekul, Warobon Noppakunmongkolchai, Ubolsree Leartsakulpanich, Katanchalee Mai-ngam</i> National Metal and Materials Technology Center
Session	Rubbers and Elastomers (1)
Date/Time/Room	Thursday, June 1st, 2017 / 13:30-15:00 / Ballroom A (6th floor)
Session Chair	Asst. Prof. Kanoktip Boonkerd
RUBB-KN1 (13:30-14:00)	Rubber Science and Technology for the Twenty-First Century <i>Prof. Yuko Ikeda</i> Kyoto Institute of Technology
RUBB-O1 (14:00-14:15)	Effect of binary accelerator on curing characteristic, viscoelastic and physical properties of NR/cation exchanged treated attapulgite nanocomposites <i>Nadras Othman and Siti Hajar Md Isa</i> Universiti Sains Malaysia
RUBB-O2 (14:15-14:30)	Silica-Reinforced Natural Rubber Tire Compounds with Aliphatic Amine as Alternative for Diphenyl Guanidine <i>Chesidi Hayichelaeh, Louis A.E.M. Reuvakamp, Wilma K. Dierkes, Anke Blume, Jacques W.M. Noordermeer and Kannika Sahakaro</i> Prince of Songkla University
RUBB-O3 (14:30-14:45)	Viscoelastic and Mechanical Properties of Carbon Black and Aramid Pulp Hybrid SBR Composites <i>Manuchet Nillawong, Krisda Suchiva, Chakrit Sirisinha</i> Mahidol University
RUBB-O4 (14:45-15:00)	Interfacial Adhesion of Natural Rubber-Montmorillonite Nanocomposites Prepared By <i>In Situ</i> Latex Compounding Method <i>Mohamad Irfan Fathurrohman, Nabil Hayeemasae and Kannika Sahakaro</i> Prince of Songkla University
Session	Rubbers and Elastomers (2)
Date/Time/Room	Thursday, June 1st, 2017 / 15:30-16:55 / Ballroom A (6th floor)
Session Chair	Asst. Prof. Kannika Sahakaro
INS-Bruker2 (15:30-15:55)	Elemental ant thickness analysis for polymer using WDXRF <i>Dr. Hou Ran Low</i> Bruker Corporation, Singapore

Keynote Lectures & Oral Presentations	
RUBB-O5 (15:55-16:10)	Tensile properties of nitrile rubber reinforced with pineapple leaf fiber and silica (polyethylene glycol) hybrid filler <i>Pitchapa Pittayavinai and Tawechai Amornsakchai</i> Mahidol University
RUBB-O6 (16:10-16:25)	Photodegradation of Natural Rubber Latex Catalyzed by TiO₂ Nanocrystal <i>Suhawati Ibrahim, Nadras Othman, Tan Kim Song, Srimala Srikantan, Zairossani Mohd Nor and Hanafi Ismail</i> Universiti Sains Malaysia
RUBB-O7 (16:25-16:40)	Mechanical Properties and Crystallization Behavior of Natural Rubber/Halloysite Clay Composites <i>Kamaruddin Waesateh, Sitisaiyiah Saiwari and Nabil Hayeemasae</i> Prince of Songkla University
RUBB-O8 (16:40-16:55)	Fast Estimates of the Dirt Content in STR 20 by Near Infrared Spectroscopy <i>Jerapa Boonyaboonya and Sunisa Suchat</i> Prince of Songkla University
Session	Rubbers and Elastomers (3)
Date/Time/Room	Friday, June 2nd, 2017 / 10:00-11:55 / Ballroom A & B (6th floor)
Session Chair	Asst. Prof. Krisda Suchiva
RUBB-KN2 (10:00-10:30)	Conductive Natural Rubber Composites based on Conductive Carbon Black, Carbon Nanotubes <i>Assoc. Prof. Charoen Nakason</i> Prince of Songkla University
INV1-TRF (10:30-10:55)	Strategy of Research and Innovation of Natural Rubber in Thailand 4.0 <i>Dr. Wirasak Smitthipong</i> The Thailand Research Fund (TRF), Kasetsart University
RUBB-O9 (10:55-11:10)	Visualization of Two-phase Network Structures in Vulcanizates by AFM <i>Tomoyuki Sato, Taichi Nakajima, Takumi Ohashi and Yuko Ikeda</i> Kyoto Institute of Technology
RUBB-O10 (11:10-11:25)	Carbon Black-Reinforced Thermoplastic Vulcanizates based on Graft Copolymers of Natural Rubber and Poly(Acetoacetoxyethyl methacrylate)/Polyamide12 <i>Wanida Nantayos, Bencha Thongnuanchan, Natinee Lopattananon, Anoma Titithammawong and Charoen Nakason</i> Department of Rubber Technology and Polymer Science, Faculty of Science and Technology, Prince of Songkla University
RUBB-O11 (11:25-11:40)	Bromination of Natural Rubber with N-bromosuccinimide <i>Nuorn Choothong, Kenichiro Kosugi, Yoshimasa Yamamoto, Seiichi Kawahara</i> Department of Materials Science and Technology, Nagaoka University of Technology, Japan
RUBB-O12 (11:40-11:55)	Improving the Impact Strength of Epoxy Resin for UAV Propeller Applications with Epoxidized Natural Rubber <i>Nattapon Pithaksareetham and Sunisa Suchat</i> Department of rubber Technology, Faculty of Science and Industrial Technology, Prince of Songkla University
Session	Compounding, Blends and Composites (1)
Date/Time/Room	Thursday, June 1st, 2017 / 13:30-14:55 / Bangluang (7th floor)
Session Chair	Assoc. Prof. Sayan Saengsuwan
COMP-KN1 (Keynote Lecture) (13:30-14:00)	Magneto-responsive Smart Polymer Composites and Their Magnetorheology <i>Prof. Hyoung Jin Choi</i> Inha University
INS-IKA (14:00-14:25)	Mixing equipment for polymer <i>Yanee Leetanan</i> IKA Works Asia Sdn. Bhd
COMP-O1 (14:25-14:40)	Electrospun nanofibers of Poly-L-lactic acid (PLLA)/ Graphene oxide (GO) blends <i>Surangsri Sriwongsa, Jedsada Manyam, Pakorn Opaprakasit and Paiboon Sreearunothai</i> Sirindhorn International Institute of Technology (SIIT)

Keynote Lectures & Oral Presentations	
COMP-O2 (14:40-14:55)	Preparation and characterizations of polymers grafted VO₂ particles for thermo-chromic window applications <i>Onruthai Srirodpai, Jatuphorn Wootthikanokkhan and Saiwan Nawalertpanya</i> King Mongkut's University of Technology Thonburi (KMUTT)
Session	Compounding, Blends and Composites (2)
Date/Time/Room	Thursday, June 1st, 2017 / 15:30-16:45 / Bangluang (7th floor)
Session Chair	Assoc. Prof. Taweechai Amornsakchai
COMP-KN2 (Keynote Lecture) (15:30-16:00)	Achieving Polymer Modification by the New Dimension of Reactive Extrusion <i>Prof. Rathanawan Magaraphan</i> Chulalongkorn University
COMP-O3 (16:00-16:15)	Surface Modification Free of Nanocomposites from Reduced Graphite Oxide and Polyethylene for Multifaceted Applications <i>Toh Guat Yee, Ong Hui Lin, Hazizan Md. Akil and Ruey-an Doong</i> Universiti Malaysia Perlis
COMP-O4 (16:15-16:30)	Synthesis of PLA-grafted natural rubber by reactive melt-blending for impact modification of PLA <i>Yodsathorn Wongngam and Cattaleeya Pattamaprom</i> Thammasat University
COMP-O5 (16:30-16:45)	Properties and Morphology of Pineapple Leaf Fiber <i>Budsaraporn Surajarusarn, Paweena Traiperm and Taweechai Amornsakchai</i> Mahidol University
Session	Molecular Design, Structure and Properties of Polymers (1)
Date/Time/Room	Thursday, June 1st, 2017 / 13:30-14:45 / Bangsue (7th floor)
Session Chair	Dr. Supanan Patthamasang
SYNT-KN1 (Keynote Lecture) (13.30-14:00)	Highly Stretchable Free Standing Membranes of Poly(acrylic acid)-b-Poly(vinyl alcohol) Synthesized via Cobalt Mediated Radical Polymerization <i>Assoc. Prof. Chi-How Peng</i> National Tsing Hua University
SYNT-O1 (14:00-14:15)	Materials with stimuli-selective release profiles <i>Daniel Crespy</i> Vidyasirimedhi Institute of Science and Technology
SYNT-O2 (14:15-14:30)	Ring-Opening Polymerization of ϵ-Caprolactone Initiated by Tin(II) Alkoxide Macroinitiators <i>Sawarot Phetsuk, Wanich Limwanich, Puttinan Meepowpan, Robert Molloy and Winita Punyodom</i> Chiang Mai University
SYNT-O3 (14:30-14:45)	Synthesis and Characterization of Silica Hybrid Coating Materials for Poly(lactic acid) Film <i>Fan Wu and Ponusa Jitphuthi</i> Prince of Songkla University
Session	Molecular Design, Structure and Properties of Polymers (2)
Date/Time/Room	Thursday, June 1st, 2017 / 15:30-16:55 / Bangsue (7th floor)
Session Chair	Asst. Prof. Chayanisa Chitichotpanya
SYNT-KN2 (Keynote Lecture) (15:30-16:00)	Ethylene Polymerisation in Slurry Process Using Unsupported Metallocene Catalysis Systems <i>Dr. Tossapol Khamnean</i> SCG Chemicals, Thailand
INS-Bruker1 (16:00-16:25)	NMR applications for polymers <i>Dr. Teh Chin Hoe</i> Bruker, Malaysia
SYNT-O4 (16:25-16:40)	Swelling Behavior and Crosslink Density of TMD-functionalized Graphene/Epoxy Nanocomposite using Colloidal Polymerization Mixing <i>Muhammad Helmi Abdul Kudus, Muhammad Razlan Zakaria, and Hazizan Md Akil</i> Universiti Sains Malaysia

Keynote Lectures & Oral Presentations

SYNT-O5 (16:40-16:55)	Controlled Synthesis of Styrene Maleic Anhydride Copolymers for Plant Protein Extraction <i>Piangtawan Phoungtawee and Patchara Punyamoongwongsa</i> Mae Fah Luang University
Session	Theoretical study, Modeling and Simulation of Macromolecules
Date/Time/Room	Friday, June 2nd, 2017 / 10:00-11:45 / Bangsue (7th floor)
Session Chair	<i>Asst. Prof. Piyarat Nimmanpipug</i>
MODL-KN1 (10:00-10:30)	Theoretical Evaluation of the Relationships between Structure and Charge Transport Properties in Organic Devices <i>Asst. Prof. Sang Uck Lee</i> Hanyang University
MODL-KN2 (10:30-11:00)	Multiscale Molecular Simulation of some important Polymers for Thailand <i>Assoc. Prof. Visit Vao-soongnern</i> Suranaree University of Technology
MODL-KN3 (11:00-11:30)	Theoretical mechanism and kinetics study of the ring-opening polymerization of cyclic esters initiated by tin(II) alkoxides and tin(IV) alkoxides <i>Asst. Prof. Nawee Kungwan</i> Chiang Mai University
MODL-O1 (11:30-11:45)	Computational Studies of Proton Transfer Ability in Alkyl Urocanate Model Compounds <i>Janchai Yana, Kanchanok Kodchakorn, Suwabun Chirachanchai, Vannajan Sanghiran Lee, Chatchai Jarumaneeroj, Kohji Tashiro, and Piyarat Nimmanpipug</i> Chiang Mai Rajabhat University