Main Event PROGRAM

Thursday, June 18, 2015		***(Day 1)***
08:00-08:30	*Registration (M Floor)*	
	Ballroom A & B	
08:30-08:40	**Opening Remarks** By *Prof. Suwabun Chirachanchai* *President of The Polymer Society of Thailand (PST)*	
08:40-09:20	**Plenary lecture I:** *(Chair: Suwabun Chirachanchai)* **Prof. Andreas Greiner** *University of Bayreuth, Germany* "Nanofibers by electrospinning – from a forgotten method to a major technique"	
	Refreshment Break	
10:00-12:00 *See Parallel Program for details*	**Ballroom A**: **Session: BIOEN1** **Ballroom B**: **Session: BIOEN2** **Jamjuree 1**: **Session: COMP1** **Jamjuree 2**: **Session: SMART1**	
	Lunch@Citi Bistro (Ground Floor)	
	Ballroom A & B	
13:00-13:10	**PST Rising Star Awards Ceremony** **1. Asst. Prof. Siripon Anantawaraskul** *Kasetsart University, Thailand*	
13:10-13:40	**2. Asst.Prof. Panya Sunintaboon** *Mahidol University, Bangkok* "Amine-decorated polymeric colloidal particles : from syntheses to applications"	
Session: Instruments *(Chair: Pasaree Laokijcharoen)*		
13:40-13:55	**Bara Scientific Co. Ltd.**	Bara Scientific
13:55-14:10	**Crest Nanosolution (Thailand) Ltd.**	crest
14:10-14:25	**Horiba (Thailand) Ltd.**	HORIBA Scientific
14:25-14:40	**JAIMA**	JAIMA
14:40-14:55	**LMS**	LMS SCIENTIFIC SOLUTION SDN.BHD.
14:55-15:10	**SM Chemical**	S.M. CHEMICAL
15:10-15:30	Research Laboratory for the Production of High Quality Resorbable Polymers **Chiang Mai University**	
	Refreshment Break	
16:00-17:50 *See Parallel Program for details*	**Ballroom A**: **Session: BIOEN1** **Ballroom B**: **Session: PROC** **Jamjuree 1**: **Session: CHAR** **Jamjuree 2**: **Session: SMART2**	

Main Event PROGRAM

Friday, June 19, 2015				***(Day 2)***
08:00-08:30	*Registration (M Floor)*			
	Ballroom A & B			
08:30-09:10	**Plenary lecture II:** *(Chair: Suda Kiatkamjornwong)* **Prof. Michel Wong Chi Man** *Institute Charles Gerhardt Montpellier, France* "Bridged polysilsesquioxanes: synthesis and application fields"			
	Refreshment Break			
09:30-11:30 *See Parallel Program for details*	**Ballroom A & B** **Session: COMP2**	**Jamjuree 1** **Session: RUBBER**	**Jamjuree 2** **Session: PROC2**	
11:30-12:10	**Polymer Society of Thailand General Assembly**			
	Lunch@Citi Bistro (Ground Floor)			
	Jamjuree 1 & 2			
13:15-13:55	**Plenary lecture III:** *(Chair: Pattarapan Prasassarakich)* **Dr. Piyada Charoensirisomboon** *Vice President, Innovation Campus Asia Pacific –Shanghai* "Creating chemistry for sustainable future in Asia"			
	Session: Polymer Research in Industry Sector *(Chair: Veerapat Tantayakom)*			
13:55-14:25	**Dr. Narin Kaabbuathong** *PTT Research and Technology Institute, PTT Public Co., Ltd.* 'Development of bioplastics-based lamination application'			
14:25-14:55	**Dr. Sukhgij Ysothonsreekul** *PTT Global Chemical Public Company Limited* *"From Bioscience to Polymer Science: Our Sustainable Prospects"*			
14:55-15:25	**Dr. Heng Soo Chin** *Agilent Technologies, Inc.* 'Optical characterization of thin films using a new Universal Measurement Accessory'			
15:25-15:55	**Dr. Nopphawan Phonthammachai** *SCG Chemicals Co., Ltd.* 'High Performance Composites for Industry'			
15:55-16:20	**Dr.Prae Chirawatkul, Dr. Wanwisa Limphirat, Assoc.Prof. Taweechai Amornsakchai** *Synchrotron Light Research Institute* 'Synchrotron light for innovative polymers'			
16:20-16:35 *Special guest*	**Dr. H. N. Chen** *Chair of International Activities Committee* *American Chemical Society* "ACS International Activities and Collaboration"			
	Ballroom A & B			
16:45-18:00	Poster Presentation			
18:00-19:00	Poster Award Presentation & Farewell Party			

Parallel PROGRAM

BIOEN: Biomedical and Environmentally Friendly Polymers

Thursday, June 18, 2015		*(Day 1)*
Ballroom A		
BIOEN1 *(Chair: Metha Rutnakornpituk)*		
10:00-10:20	**BIOENO-01** A novel host-guest system and its supramolecular self-assembly and thermoresponsive micellization	Xia Song *National University of Singapore, Singapore*
10:20-10:40	**BIOENO-02** Dual performances of benzoxazine dimers as metal ligand catalyst and as initiator for high efficient ring opening polymerization of lactide and branching poly(lactide)	Choltirosn Sutapin *Chulalongkorn University, Thailand*
10:40-11:10	**KN-BIOEN-1** Supramolecular self-assembled polymers as novel biomaterials	Jun Li *National University of Singapore, Singapore*
11:10-11:30	**BIOENO-03** Synthesis and characterization of medical grade poly(L-lactide-co-glycolide) for biomedical use as absorbable nerve guides	Pimwalan Techaikool *Chiang Mai University, Thailand*
11:30-11:50	**BIOENO-04** Bioconjugation of anionic magnetite nanoparticle (MNP) with pyrrolidinyl peptide nucleic acid (PNA) for molecular biology technique	Sudarat Khadsai *Naresuan University, Thailand*
Ballroom B		
BIOEN2 *(Chair: Warayuth Sajomsang)*		
10:00-10:20	**BIOENO-5** Active ingredients with different water solubility loaded in fatty acid liposomes for sustained delivery	Han-Choi Yew *University of Malaya, Malaysia*
10:20-10:50	**KN-BIOEN-2** Control of cell surfaces by polymer/protein LbL films for fabrication of 3D-human tissue models	Michiya Matsusaki *Osaka University, Japan*
10:50-11:10	**BIOENO-06** Preparation and characterization of porous PEG/PEGDMA/GMA hydrogel scaffolds	Tharinee Theerathanagorn *National Metal and Materials Technology Center, Thailand*
11:10-11:30	**BIOENO-07** Modulating the autofluorescence of silk to enhance analysis of cells and proteins by fluorescence imaging on silk-based biomaterials	Puay Yong Neo *National University of Singapore, Singapore*
11:30-11:50	**BIOENO-08** Synthesis of positively charged poly(lactic acid) for preparation of electrospun fiber	Thanin Chalermbongkot *Chulalongkorn University, Thailand*

BIOEN *continued*

Thursday, June 18, 2015		*(Day 1)*
Ballroom A		
BIOEN3 *(Chair: Panya Sunintaboon)*		
16:00-16:30	**KN-BIOEN-3** Enzymatic degradation of oil palm empty fruit bunch biomass	Rusli Bin Daik *Universiti Kebangsaan Malaysia, Malaysia*
16:30-16:50	**BIOENO-09** Encapsulation of different log p anticancer drugs in 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-[methoxy-(polyethyleneglycol)-2000 (DOPE-PEG2000)-oleic acid liposome	Vicit Rizal Ehsuk *University of Malaya, Malaysia*
16:50-17:10	**BIOENO-10** Study on covalent and ionic cross-linked in chitosan film by genipin and tripolyphosphate as potential material in medical applications	Siti Farhana Hisham *Advanced Materials Research Centre (Amrec), Sirim Berhad, Malaysia*
17:10-17:40	**KN-BIOEN-4** Chitosan dispersion as a pharmaceutical coating material	Satit Puttipipatkhachorn *Mahidol University, Thailand*

Parallel PROGRAM

CHAR: Advances in Polymer Characterization

Thursday, June 18, 2015		*(Day 1)*
Jamjuree 1		
(Chair: Taweechai Amornsakchai)		
09:40-10:10	**KN-CHAR-1** Preparation and properties of natural rubber with organic-inorganic nanomatrix structure	Seiichi Kawahara *Nagaoka University of Technology, Japan*
Jamjuree 1		
(Chair: Kannika Sahakaro		
16:00-16:20	**CHARO-01** Long chain branching determination by triple-detector GPC	Thipphaya Pathaweeisariyakul *SCG Chemicals, Thailand*
16:20-16:40	**CHARO-02** Mechanism of prevulcanization of isoprene rubber latex	Kewwarin Sae-heng *Nagaoka University of Technology, Japan*
16:40-17:10	**KN-CHAR-2** Chemically controlled self-assembly of gold nanoparticles by site-selective protein immobilization: A model for antimalarial drug screening	Palangpon Kongsaeree *Mahidol University ,Thailand*
17:10-17:30	**CHARO-03** The preparation and plausible structure of allylic bromination for phenyl-modified natural rubber	Nuorn Choothong *Nagaoka University of Technology, Japan*

Parallel PROGRAM

COMP: Polymer Composites and Nanocomposites

Thursday, June 18, 2015		***(Day 1)***
Jamjuree 1		
COMP1 *(Chair: Taweechai Amornsakchai)*		
10:10-10:40	**KN-COMP-1** Interphase transfer of nanoparticles between immiscible polymer blends	Masayuki Yamaguchi *Japan Advanced institute of Science and Technology, Japan*
10:40-11:00	**COMPO-01** Influence of pristine clay incorporation on strain-induced crystallization of natural rubber	Abdulhakim Masa *Prince of Songkla University, Thailand*
11:00-11:20	**COMPO-02** Effects of organoclaytypes on morphological and mechanical properties of polyoxymethylene/polypropylene blends	Nipawan Yasumlee *Silpakorn University, Thailand*
11:20-11:50	**KN-COMP-2** Hybrid porous polymers derived from octavinylsilsesquioxane	Hongzhi Liu *Shandong University, China*
Friday, June 19, 2015		***(Day 2)***
Ballroom A & B		
COMP2 *(Chair: Chonlada Ritviruth)*		
09:30-09:50	**COMPO-03** Study on model filler network in natural rubber matrix: Strain-induced crystallization behavior and dynamic mechanical Properties	Atitaya Tohsan *Venture Laboratory, Kyoto Institute of Technology, Japan*
09:50-10:10	**COMPO-04** Preparation and characterization of TiO_2/WO_3/polythiophene composite	Nuttaporn Jaritkaun *King Mongkut's University of Technology Thonburi, Thailand*
10:10-10:40	**KN-COMP-3** Natural fiber reinforced rubber: recent advances toward high performance rubber matrix composites using pineapple leaf fiber	Taweechai Amornsakchai *Mahidol University, Thailand*
10:40-11:10	**KN-COMP-4** Performance of aramid fiber in rubber compounds	Jutarat Phanmai *Vice President - Marketing Trading Chemical Innovation Co., Ltd., Thailand*
11:20-12:10	**Polymer Society of Thailand- General Assembly** *(All are welcome.)*	

Parallel PROGRAM

PROC: Advances in Polymer Processing

Thursday, June 18, 2015		*(Day 1)*
Ballroom B		
PROC1 *(Chair: Asira Fuongfuchat)*		
16:00-16:20	**PROCO-01** Application of genetic algorithm in identifying ethylene/1-olefin copolymerization conditions from molecular weight distribution and chemical composition distribution	Uthane Nanthapoolsub *Kasetsart University, Thailand*
16:20-16:50	**KN-PROC-1** Foam, (micro)foam, (nano)foam! - reality and dream	Masahiro Ohshima *Kyoto University, Japan*
16:50-17:10	**PROCO-02** Determination of polymerization conditions for producing ethylene/1-olefin copolymers with tailor-made chain micro-structures using artificial neural network	Thanutchoke Charoenpanich *Kasetsart University, Thailand*

Friday, June 19, 2015		*(Day 2)*
Jamjuree 2		
PROC2 *(Chair: Kalyanee Sirisinha)*		
09:50-10:20	**KN-PROC-2** Fiber design: A creation of fiber structure for feature and performance	Chureerat Prahsarn *National Metal and Materials Technology Center, Thailand*
10:20-10:40	**PROCO-03** Simulation of morphological development during polymer crystallization: Effect of temperature gradient on the crystallization kinetics	Tharinee Teangtae *Kasetsart University, Thailand*
10:40-11:00	**PROCO-04** Pressure slips casting: effect of pressure and time on green articles	Kittiya Jitklang *King Mongkut's Universiti of Technology Thonburi, Thailand*
11:00-11:20	**PROCO-05** Comb-shaped polycarboxylate based copolymers with benzaldehyde derivative for molecular model of antimicrobial superplasticizer	Nalinthip Chanthaset *Kasetsart University, Thailand*

RUBBER: Natural and Synthetic Rubbers

Friday, June 19, 2015		*(Day 2)*
Jamjuree 2		
(Chair: Pranee Phinyocheep)		
09:30-10:00	**KN-RUBBER-1** New focus on rubber science and technology	Yuko Ikeda *Kyoto Institute of Technology, Japan*
10:00-10:20	**RUBBERO-01** The use of modified palm oil as processing aids in tyre tread applications	Vorapot Thongplod *Mahidol University*
10:20-10:40	**RUBBERO-02** Thermoplastic elastomers based on graft copolymers of natural rubber and poly(diacetone acrylamide)/polyamide-12	Gosalee Phersalaeh *Prince of Songkla University Pattani campus*, Thailand
10:40-11:00	**RUBBERO-03** Thermoplastic vulcanizates based on natural rubber/propylene-ethylene copolymer blends; Influence of Viscosity and Ethylene content of the Copolymer on the properties	Toha Wohmang *Prince of Songkla University Pattani campus, Thailand*
11:00-11:20	**RUBBERO-04** Morphology and properties of films prepared from different natural rubber clones	Treethip Phakkeeree *Kyoto Institute of Technology, Japan*

Parallel PROGRAM

SMART: Smart and Intelligent Polymers

Thursday, June 18, 2015		*(Day 1)*
Jamjuree 2		
SMART1 *(Chair: Robert Molloy)*		
09:40-10:10	**KN-SMART-1** Coordination triggered division of vesicles	Yun Yan *Peking University, China*
10:10-10:40	**SMARTO-01** Surface modification of polymer electrolyte membrane with heterocyclic brushes: a strategy to achieve effective proton transfer	Adisak Pokprasert *Chulalongkorn University, Thailand*
10:40-11:00	**SMARTO-02** Preparation of microcapsules containing citronellal oil and galangal extract	Kankamon Sinpaksa *Maejo University, Thailand*
11:00-11:20	**KN-SMART-2** Self-assembled polymer electrolytes for future electrochemical devices	Moon Jeong Park *Pohang University of Science and Technology (POSTECH), Korea*
11:20-11:40	**SMARTO-03** Preparation of microcapsules containing citronellal oil and galangal extract	Benjawan Somchob *Ubon Ratchatani University, Thailand*
Jamjuree 2		
SMART2 *(Chair: Winita Punyodom)*		
16:00-16:30	**KN-SMART-3** Non-ionic thermoresponsive polymers of UCST-type in water: challenges and perspectives	Seema Agarwal *Universität Bayreuth, Germany*
16:30-16:50	**SMARTO-04** Layered-by-layered proton donor and acceptor polymers for effective and efficient proton transfer system	Chalanda Meemuk *Chulalongkorn University, Thailand*
16:50-17:10	**SMARTO-05** Rapid reversible repeatable (RRR) mechanochromic-shape memory material: a unique combination of poly(ε-caprolactone) with melamine-benzoxazine network	Nattawat Yenpech *Chulalongkorn University, Thailand*
17:10-17:40	**KN-SMART-4** Polymer-based smart devices: Electronics on paper, plastic and textile	Teerakiat Kerdcharoen *Mahidol University, Thailand*