

## PARALLEL PROGRAM

Keynote Lectures , Invited Lectures & Oral Presentations	
Session	Advanced and Functional Polymer (ADFP1)
Date/Time/Room	Thursday, June 8 <sup>th</sup> , 2023/1.15 PM – 2.20 PM/ Chidlom (7 <sup>th</sup> floor)
Chair	<i>Asst. Prof. Varawut Tangpasuthadol</i>
ADFP-KN1 (1.15 PM – 1.45 PM)	<b>Self-healing transparent polymers and their applications</b> Krisada Auepattana-Aumrung, Kanyarat Mantala, Jenpob Sokjorhor, Tiwa Yimyai and <b><u>Daniel Crespy</u></b>
ADFP-IV1 (1.45 PM – 2.10 PM)	<b>Synthesis of Carbon Dots from Saccharides through Solution Plasma Process and Their Sensing Applications</b> <b><u>Anyarat Watthanaphanit</u></b>
ADFP-O1 (2.10 PM – 2.25 PM)	<b>Selective release of active agents from polymers by tuning the hydrolysis of thioether esters</b> <b><u>Nachnicha Kongkatigumjorn</u></b> and Daniel Crespy
Session	Polymer Blends and Composites (ADFP2)
Date/Time/Room	Thursday, June 8 <sup>th</sup> , 2023/3.00 PM – 4.00 PM/ Chidlom (7 <sup>th</sup> floor)
Chairs	<i>Assoc.Prof. Amorn Chaiyasat and Assoc.Prof. Daniel Crespy</i>
ADFP-KN2 (3.00 PM – 3.30 PM)	<b>Cation exchange membrane and anion exchange membrane for zinc-based batteries</b> Nuttapon Suppanucroa, Warunyoo Yoopensuk, Soorathep Kheawhom and <b><u>Anongnat Somwangthanaroj</u></b>
ADFP-O2 (3.30 PM – 3.45 PM)	<b>Room temperature self-healing poly(urea-urethane) elastomers</b> <b><u>Kanyarat Mantala</u></b> and Daniel Crespy
ADFP-O3 (3.45 PM – 4.00 PM)	<b>High Temperature Thermal Gradient and Solvent Gradient Interaction Chromatography (HT-TGIC &amp; HT-SGIC) of Ethylene/1-Octene Copolymers: Model Development</b> <b><u>Worapath Sirithong</u></b> , Siripon Anantawaraskul, Subrajeet Deshmukh, Jan Hendrik Arndt and Robert Brülland João B. P. Soares
Session	Biomedical Polymers1 (BMED1)
Date/Time/Room	Friday, June 9 <sup>th</sup> , 2023/1:15 PM-2.45 PM/ Ballroom 1 (6 <sup>th</sup> floor)
Chairs	<i>Asst. Prof. Runglawan Somsunan and Assoc.Prof. Kiattikhun Manokruang</i>
BMED-KN1 (1.15 PM-1.45 PM)	<b>Innovatively Designed Materials for Biological Applications</b> <b><u>Prof. Bimlesh Lochab</u></b>
BMED-O1 (1.45 PM-2.00 PM)	<b>Drug-Coated Poly(lactide-co-caprolactone) Monofilament Suture for an Enhancement of Anti-Microbial Effect</b> <b><u>Montira Sriyai</u></b> , Jagkrit Tasati, Robert Molloy, Jomkwan Meerak, Puttanan Meepowpan and Winita Punyodom

BMED-O2 (2.00 PM-2.15 PM)	<b>Green synthesis of core-shell nanogel particles for redox-responsive drug delivery</b> <b><u>Kritsadayut Lekjinda</u></b> and Panya Sunintaboon
BMED-KN2 (2.15 PM-2.45 PM)	<b>Molecular Design of Chitin/Chitosan for Biomedical Approach</b> <b><u>Assoc. Prof. Wanpen Tachaboonyakiat</u></b>
<b>Session</b>	<b>Biomedical Polymers2 (BMED2)</b>
<b>Date/Time/Room</b>	<b>Friday, June 9<sup>th</sup>, 2023/3:00 PM-4.30 PM/ Ballroom 1 (6<sup>th</sup> floor)</b>
<b>Chairs</b>	<i>Asst. Prof. Runglawan Somsunan and Assoc.Prof. Kiattikhun Manokruang</i>
BMED-KN3 (3.00 PM-3.30 PM)	<b>Current Trends in Polyhydroxyalkanoates and their Advances for Biomedical Applications</b> <b><u>Assoc. Prof. Nuttawee Niamsiri</u></b>
BMED-O3 (3.30 PM-3.45 PM)	<b>Biosynthesis, Fractionation and Characterization of Bacterial Medium-chain-length Polyhydroxyalkanoate (MCL-PHA) Blends</b> Anuchan Panaksri and Nuttapol Tanadchangsang
BMED-O4 (3.45 PM-4.00 PM)	<b>Improving mechanical property and water absorption ability of bio-based mycelium materials for tissue regenerative application</b> <b><u>Warissara Nopnob</u></b> and Nungnit Wattanavichean
BMED-O5 (4.00 PM-4.15 PM)	<b>Development of biodegradable particulate filters incorporating proteinase k in poly(L-lactic acid) by emulsion electrospinning</b> <b><u>Itchaya Thinnakorn</u></b> , Jutamas Kongsuk, Thannaphat Jenvoraphot, Donraporn Daranarong, Montira Sriyai, Robert Molloy and Winita Punyodom
BMED-O6 (4.15 PM-4.30 PM)	<b>Synthesis of Ag/Au Nanoparticle-Decorated PMMA/PEI Particles for Potential Use in Biomedical Applications</b> <b><u>Veerapat Ramanee</u></b> and Panya Sunintaboon
<b>Session</b>	<b>Polymer Blends and Composites (COMP1)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/1.15 PM -2.25 PM/ Ballroom 2 (6<sup>th</sup> floor)</b>
<b>Chair</b>	<i>Assoc. Prof. Ittipol Jangchud</i>
COMP-KN1 (1.15 PM-1.45 PM)	<b>Epoxy Resins &amp; Systems for Lower Carbon Footprint</b> <b><u>Mr. Amit Dixit</u></b>
COMP-O1 (1.45 PM-2.00 PM)	<b><u>Toughening effect of different nanocelluloses on pineapple leaf fiber reinforced epoxy composite</u></b> <b><u>Nichapa Klinthoophamrong</u></b> , Sombat Thanawan, Panya Sunintaboon and Taweechai Amornsakchai
COMP-IV1 (2.00 PM-2.25 PM)	<b>Photo-selective nonwoven for Agriculture</b> <b><u>Dr. Natthaphop Suwannamek</u></b>

<b>Session</b>	<b>Polymer Blends and Composites (COMP2)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/3.00 PM -4.05 PM/ Ballroom 2 (6<sup>th</sup> floor)</b>
<b>Chair</b>	<i>Assoc. Prof. Ittipol Jangchud</i>
COMP-KN2 (3.00 PM-3.30 PM)	<b>How polymers could contribute to a low-carbon society</b> <b><u>Professor Kheng Lim Goh</u></b>
COMP-O2 (3.30 PM-3.45 PM)	<b><u>Effect of Alkaline Treatment on Structure and Properties Pineapple Leaf Fiber: A Route Toward High-Performance Composites</u></b> <b><u>Thanistha Akarapoowadol</u></b> , Sombat Thanawan, Panya Sunintaboon and Taweechai Amornsakchai
COMP-IV2 (3.45 PM-4.10 PM)	<b>Eco-friendly bio-based composites of starch and natural rubber reinforced with nanoclays</b> <b><u>Asst. Prof. Jareerat Ruamcharoen</u></b>
<b>Session</b>	<b>Polymer Blends and Composites (COMP3)</b>
<b>Date/Time/Room</b>	<b>Friday, June 9<sup>th</sup>, 2023/1:15 PM -2.25 PM / Ballroom 2 (6<sup>th</sup> floor)</b>
<b>Chair</b>	<i>Dr. Pasaree Laokijcharoen</i>
COMP-IV3 (1.15 PM-1.40 PM)	<b>Green Economy Trailblazer: SOLITAIRE Solid Surface with recycled/repurposed thermosetting polymer</b> <b><u>Mr. Vikran Tungsiripat</u></b>
COMP-O3 (1.40 PM-1.55 PM)	<b><u>Upcycling High-Density Polyethylene (rHDPE) into Low Carbon Material with Pineapple Leaf Waste</u></b> <b><u>Sorn Duangsuwan</u></b> and Taweechai Amornsakchai
COMP-O4 (1.55 PM-2.10 PM)	<b><u>Fabrication and Property Evaluation of Biodegradable PLA/PBS Blend Nonwoven Fabric</u></b> <b><u>Saowaluk Boonyod</u></b> , Weraporn Pivsa-Art and Sommai Pivsa-Art
COMP-O5 (2.10 PM-2.25 PM)	<b>Properties of poly(butylene terephthalate) composites adding glass flake and aluminum powder</b> <b><u>Nattakarn Hongsriphan</u></b> and Pajaera Patanathabutr
<b>Session</b>	<b>Polymer Blends and Composites (COMP4)</b>
<b>Date/Time/Room</b>	<b>Friday, June 9<sup>th</sup>, 2023/3:00 PM -4.15 PM/ Ballroom 2 (6<sup>th</sup> floor)</b>
<b>Chair</b>	<i>Dr. Pasaree Laokijcharoen</i>
COMP-KN3 (3.00 PM-3.30 PM)	<b>Developments of Polymer Composites for Energy Related Applications: An update on the current status and future perspectives</b> <b><u>Assoc. Prof. Jatuphorn Wootthikanokkhan</u></b>
COMP-O6 (3.30 PM-3.45 PM)	<b>Development of Antimicrobial Properties for Mycelium-based Materials</b> <b><u>Zayar Paing Soe</u></b> and Nungnit Wattanavichean

COMP-IV4 (3.45 PM-4.15 PM)	(LabTech)
<b>Session</b>	<b>Polymers and Environmental Sustainability (PBCG1)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/ 1:15 PM-2:45 PM /Ballroom 1(6<sup>th</sup> floor)</b>
<b>Chairs</b>	<i>Assoc. Prof. Suttinun Phongtamrug and Dr. Nonsee Nimitsiriwat</i>
PBCG-KN1 (1.15 PM-1.45 PM)	<b>Sustainable Slow-Release Fertilizer: Biopolymer-based Coating Membranes</b> <b><u>Associate Professor Dr. Savant Saengsuwan</u></b>
PBCG-KN2 (1.45 PM-2.15 PM)	<b>Upgrading Bio-based Materials and Bioplastics using Electron Beam Technology</b> <b><u>Associate Professor Dr. Wanvimol Pasanphan</u></b>
PBCG-O1 (2.15 PM-2.30 PM)	<b>Application of Leaves Extract from <i>Vernonia amygdalina</i> as Electrospayed Particle for Inhibiting of Phytophthora spp. in Citrus Root Rot</b> <b><u>Pratchaya Tipduangta</u></b> , Busaban Sirithunyalug, Sunee Chansakaow, Sirinthicha Thakad, Ratchadawan Cheewangkoon and Anuruddha Karunarathna
PBCG-O2 (2.30 PM-2.45 PM)	<b>3D Food Printing of Biopolymers: Effect of the Rheological Properties and Printing Parameters on the Spreading of Pectin Inks.</b> <b><u>Théo Outrequin</u></b> , Chaiwut Gamonpilas, Wanwipa Siriwatwechakul and Paiboon Sreearunothai
<b>Session</b>	<b>Polymers and Environmental Sustainability (PBCG2)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/ 3.00 PM-4:10 PM /Ballroom 1(6<sup>th</sup> floor)</b>
<b>Chairs</b>	<i>Assoc. Prof. Suttinun Phongtamrug and Dr. Nonsee Nimitsiriwat</i>
PBCG-IV1 (3.00 PM-3.25 PM)	<b>Improved Water Vapor Barrier of Polyol-plasticized Polylactide Films for Fresh Produce Packaging</b> <b><u>Piyawanee Jariyasakoolroj</u></b> , Kanyapat Klairasame and Amporn Sane
PBCG-O3 (3.25 PM-3.40 PM)	<b>Tunable Mechanical Property of Mycelium-based Composite by 3D Printing</b> <b><u>Jintanaree Thongchan</u></b> and Nungnit Wattanavichean
PBCG-O4 (3.40 PM-3.55 PM)	<b>The Utilization of Fly Ash as an Alternative Filler in Natural Rubber Compounds</b> <b><u>Karnda Sengloyluan</u></b> and Nattapon Uthaipan
PBCG-O5 (3.55 PM-4.10 PM)	<b>A Tosylated Hyper-Crosslinked Polymer: A Novel Polymeric Building Block for Preparations of Functional Polymers in Environmental Remediation</b> <b><u>Thanthapatra Bunchuay</u></b> , Bunyaporn Todee, Kritanan Junthod, Thachanok Ratvijitvech, Phoonthawee Saetear, Jonggol Tantirungrotechai and Threeraphat Chutimasakul
<b>Session</b>	<b>Rubbers/Elastomers (RUBB1)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/ 1:15 PM-2:25 PM /Ballroom 3(6<sup>th</sup> floor)</b>
<b>Chair</b>	<i>Prof. Napida Hinchiranan</i>

RUBB-KN1 (1.15 PM -1.45 PM)	<b>Establishment of Natural Rubber Chemistry toward Low Carbon Society</b> <b><u>Prof.Dr. Seiichi Kawahara</u></b>
RUBB-IV1 (1.45 PM -2.10 PM)	<b>Mechanical and thermally healable properties of cross-linked epoxidized natural rubber bearing exchangeable cross-link networks</b> <b><u>Asst. Prof.Dr. Subhan Salaeh</u></b>
RUBB-O1 (2.10 PM -2.25 PM)	<b>Influence of prolonged silanization time during mixing of silica-reinforced natural rubber</b> <b><u>Ammarin Kraibut</u></b> , Wisut Kaewsakul, Kannika Sahakaro, Sitisaiyidah Saiwari, Jacques W.M. Noordermeer and Wilma K. Dierkes
<b>Session</b>	<b>Rubbers/Elastomers (RUBB2)</b>
<b>Date/Time/Room</b>	<b>Thursday, June 8<sup>th</sup>, 2023/ 3.00 PM-4.10 PM /Ballroom 3(6<sup>th</sup> floor)</b>
<b>Chair</b>	<b><i>Assoc.Prof. Sirilux Poompradub</i></b>
RUBB-IV2 (3.00 PM -3.25 PM)	<b>Natural Rubber: An Indispensable Material for Modern Life and Sustainability in the 21st Century</b> <b><u>Asst.Prof.Dr.Preevanuch Junkong</u></b>
RUBB-O2 (3.25 PM -3.40 PM)	<b>Effect of Butadiene Rubber Grades and its Blend Ratios with Natural Rubber on the Properties of Tire Sidewall Compounds</b> <b><u>Pisit Pimrat</u></b> , Tulyapong Tulyapitak and Kannika Sahakaro
RUBB-O3 (3.40 PM -3.55 PM)	<b>The Utilization of Bottom Ash from Biomass as a Filler in Rubber</b> <b><u>Jirapon Khunyong</u></b> and Adisai Rungvichaniwat
RUBB-O6 (3.55 PM -4.10 PM)	<b>Preparation and properties of ionomeric elastomer based on maleated BIIR</b> <b><u>Benjawan Masri</u></b> and Subhan Salaeh
<b>Session</b>	<b>Rubbers/Elastomers (RUBB3)</b>
<b>Date/Time/Room</b>	<b>Friday, June 9<sup>th</sup>, 2023/ 1:15 PM-2:40 PM /Ballroom 3(6<sup>th</sup> floor)</b>
<b>Chair</b>	<b><i>Assoc.Prof. Kannika Sahakaro</i></b>
RUBB-KN2 (1.15 PM -1.45 PM)	<b>Sustainability of Natural Rubber Production vs. Rubber Prices</b> <b><u>Dr. Amir Hashim bin Md Yatim</u></b>
RUBB-IV3 (1.45 PM -2.10 PM)	<b>Chemical surface modification for adhesion improvement of rubbers</b> <b><u>Assoc. Prof. Dr. Sombat Thanawan</u></b>
RUBB-O4 (2.10 PM -2.25 PM)	<b>Development of Rubber Compounds for the Production of Reference Rubber Block Materials with Hardness in the Range of 40-90 Shore A According to ISO 17034</b> <b><u>Supaporn Kerdsiri</u></b> , Kannika Sahakaro and Tulyapong Tulyapitak

RUBB-O5 (2.25 PM -2.40 PM)	<b>The effect of natural rubber on biodegradation of polylactic acid/natural rubber blown film</b> <b><u>Atthawich Prasongporn</u></b> , Peerapong Chanthot, Chiravoot Pechyen and Cattaleeya Pattamaprom
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## Poster Presentations

### Advanced and Functional Polymer (ADFP)

ADFP-P1	<b><u>Synthesis and application of alginate-coated magnetic nanoparticles for histidine-tagged proteins purification</u></b> Wanwisa Chaobankrang, Thunpicha Wetwatcharatacho, Varunee Sadsri, Thanida Trakulsujaritchok, Somchart Maenpuen and <b><u>Piyaporn Na Nongkhai</u></b>
ADFP-P2	<b><u>Smart bio-based polymer particle: perfume, antimicrobial and thermoregulator particles</u></b> <b><u>Saharat Limman</u></b> , Preeyaporn Chaiyasat and Amorn Chaiyasat
ADFP-P3	<b><u>Synthesis of random and multiblock poly(L-lactide-co-glycolide-co-ε-caprolactone) terpolymers using one-pot and two-step ring-opening polymerization</u></b> <b><u>Amataporn Jompralak</u></b> , Kittisak Yarungsee, Jutamas Kongsuk, Donraporn Daranarong, Kiattikhun Manokruang, Kanarat Nalampang, Robert Molloy and Winita Punyodom
ADFP-P4	<b><u>Study of colorimetric responses of hypercrosslinked polymers prepared from different indicators</u></b> <b><u>Thankamon Pattumtee</u></b> , Atitaya Siripinyanond and Thanchanok Ratvijitvech
ADFP-P5	<b><u>Synthesis and characterization of ph-sensitive fluorescent cellulose nanocrystals for ratiometric fluorescence probe</u></b> <b><u>Jongjit Chalitangkoon</u></b> , Raphaell Moreira, Pathavuth Monvisade and E. Johan Foster
ADFP-P6	<b><u>facile fabrication of ph-responsive screen-printed label from phenol red-grafted chitosan for intelligent food packaging applications</u></b> <b><u>Arnat Ronte</u></b> , Jongjit Chalitangkoon, E. Johan Foster and Pathavuth Monvisade

### Biomedical Polymers (BMED)

BMED-P1	<b><u>Hydrogel wound dressing for controlled release of sodium salicylate from gelatin/ carboxyethyl chitosan/ oxidized sodium alginate</u></b> <b><u>Jitlada Sriarayawong</u></b> , Aorawee Jitjamrasrat, Anchisa Keawdougdee and Pathavuth Monvisade
BMED-P2	<b><u>Development of Electrospun Polyhydroxyalkanoates/Collagen Scaffolds for Wound Dressing Application</u></b> <b><u>Jiravus Kongkansarn</u></b> , Thunyarat Pongtharangkul , Panithi Sukho, Panitarn Wanakamol and Nuttawee Niamsiri

### Polymer Blends and Composites (COMP)

COMP-P1	<b><u>Properties of poly(butylene terephthalate) composites adding glass flake and aluminum powder</u></b> <b><u>Nattakarn Hongsriphan</u></b> and Pajaera Patanathabutr
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COMP-P2	<b>Effect of microcrystalline cellulose (MCC) on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV)</b> <b><u>Rattanawadee Hedthong</u></b> , Thorsak Kittikorn and Suding Kadea
COMP-P3	<b>Poly(L-lactic acid)/poly(vinylidene fluoride) electrospun blends for use as nanofibrous filter pads in face masks</b> <b><u>Siriprapa Paebdib</u></b> , Itchaya Thinnakorn, Donraporn Daranarong, Thanaphat Jenvoraphot, Robert Molloy and Winita Punyodom
COMP-P4	<b>Preparation of poly(butylene-adipate-co-terephthalate) (PBAT) grafted cassava starches using plasticizing technique: Thermal analysis</b> <b><u>Suppalak Suwanchatree</u></b> , Thorsak Kittikorn and Thitiporn Nuamnuam
COMP-P5	<b>Selected Papers as Potential Laminar Reinforcement for Tapioca Starch/Glutinous Starch Blend Composite Foams</b> <b><u>Manisara Phiriyawirut</u></b> , Ratiwan Cothsila, Peerapat Kulvorakulpitak, Pukrapee Rodprasert and Nattarat Kengkla
COMP-P6	<b>Kappa-carrageenan/poly(hydroxyethyl methacrylate) hydrogels with enhanced antibacterial property induced by silver nanoparticles</b> Piyaporn Na Nongkhai, Puripat Reakatanan and <b><u>Thanida Trakulsujaritchok</u></b>
COMP-P7	<b>A Novel Approach to Develop Low Carbon Products with Carbon Sequestration Potential Using Recycled Rubber and Pineapple Leaf Fiber</b> <b><u>Satit Thaiwattnanon</u></b> , Sombat Thanawan and Taweechai Amornsakchai
<b>Polymers and Environmental Sustainability (PBCG)</b>	
PBCG-P1	<b>Sustainable Biocomposite Films from Poly(Lactic acid)/Natural Rubber/Rice straw</b> <b><u>Chanatinat Rong-or</u></b> , Wachirabhorn Pongputthipat, Yupaporn Ruksakulpiwat and Pranee Chumsamrong
PBCG-P2	<b>Preparation and Characterization of Starch Films from Native Starch/Crosslinked Starch Blend</b> <b><u>Thitirat Rammak</u></b> , Phetdaphat Boonsuk and Kaewta Kaewtatip
PBCG-P3	<b>Production of Laminate Biocomposite based Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) PHBV - Crystal Nanocellulose from Waste Fiber for Building Materials</b> <b><u>Phuthanet Bamrungsiri</u></b> and Thorsak Kittikorn
PBCG-P4	<b>Fully Biobased Adsorbent for Removal of Cationic Dye from Water</b> <b><u>Sasimaporn Ampawan</u></b> , Udomsak Sriplub and Watchanida Chinpa
PBCG-P5	<b>Isolation and Characterization of Amorphous Cellulose Prepared from Water Hyacinth</b> <b><u>Chonthicha Suwannaklang</u></b> and Warunee Ariyawiriyanan
PBCG-P6	<b>Optimizing Acid Hydrolysis Conditions for High Yield Production of Nanocrystalline Cellulose from Water Hyacinth Fibers</b> <b><u>Raweerat Prasertwong</u></b> and Warunee Ariyawiriyanan

PBCG-P7	<b>Microwave Foaming of Pineapple Stem Starch-Based Foam: Preparation and Properties</b> <u>Thanittha Pongsakul</u> , Panya Sunintaboon, and Taweechai Amornsakchai
PBCG-P8	<b>Removal of Methyl Orange from Aqueous Solution by Polyethylenimine Coated Pineapple Leaf Microfibers</b> <u>Chavanit Rungrattanachai</u> , Thanchanok Ratvijitvech and Taweechai Amornsakchai
PBCG-P9	<b>Methylene Blue Removal of Dye Adsorbent from Modified Natural Rubber and Poly(acrylic acid)</b> <u>Gonlawat Kaewprasert</u> and Chuanpit Khaokong
PBCG-P10	<b>Studies of Biodegradable Starch-Based Composite Foam from Pineapple Field Waste</b> <u>Atitiya Namphonsane</u> and Taweechai Amornsakchai
PBCG-P11	<b>Preparation of Water-Resistant Coating for Paper from Pineapple Stem Starch</b> <u>Phattarakarn Suwannachat</u> , Panya Sunintaboon and Taweechai Amornsakchai
PBCG-P12	<b>Preparation of Eco-friendly Microparticles from Pineapple Stem Waste</b> <u>Nithinart Pakdeekobkul</u> and Taweechai Amornsakchai
PBCG-P13	<b>The Development of the Waterproof Property of Mycelium-based Material for Leather Substitution</b> <u>Jitumpai Sodaenrath</u> and Nungnit Wattanavichean
PBCG-P14	<b>Utilization of Skim Latex Serum for the Synthesis of Flower-like ZnO and Its Photocatalytic Application</b> <u>Sopinva Nithakorn</u> and Preeyanuch Junkong
PBCG-P15	<b>Effect of Hydrolyzed Starch on the Properties of Polyvinyl Alcohol Films</b> <u>Poonsub Threepopnatkul</u> , Li Xin, Chananon Amphong, Voranon Limsamran and Supanut Phattarateera
PBCG-P16	<b>Synthesis of Water Soluble Chitosan for Injectable Thermoresponsive Hydrogel</b> <u>Boonsita Pinsuwan</u> , Sittisak Honsawek and Wanpen Tachaboonyakiat
PBCG-P17	<b>Thermoplastic Starch from Pineapple Stem Starch: Effect of Plasticizers and Crosslinking Agents</b> Jitra Bunrueang, Pornsawan Jangwat, Kanyamon Nontha, Prakansi Nksing, <u>Yeewa Sukkerd</u> and Supatra Pratumshat
PBCG-P18	<b>Preparation of Screen-Printed Carbon Electrodes for Electrochemical Sensing</b> <u>Kroekchai Inpor</u> , Taweesak Kaewmanee, Angkana Phongphut, Natnarin Pudchakarn, Porpin Pungetmongkol and Chanchana Thanachayanont



PBCG-P19	<b>Molecularly Imprinted Polymer Based Electrochemical Sensor for Recognition and Determination of Chlorpyrifos</b> <u>Angkana Phongphut</u> , Krokchai Inpor, Bralee Chayasombat, Visittapong Yordsri, Seeroong Prichanont and Chanchana Thanachayanont
PBCG-P20	<b>Characterization of <i>Aloe Vera</i> Rind Extracts</b> <u>Supisara Hongpuek</u> , Suwapicha Sangwichaipat and Wanpen Tachaboonyakiat <sup>1</sup>
PBCG-P21	<b>Evaluation of Bioactive Activities of <i>Aloe vera</i> Rind Extract</b> <u>Suphaphit Nateetumrong</u> and Jiratchaya Sangmueng
PBCG-P22	<b>Poly(lactic acid) /Thermoplastic Starch from Pineapple Stem Starch Composite Film for Single use Products by Vacuum Thermoforming</b> <u>Hataithip Sanpromma</u> , Yeewa Sukkerd, Nanthaya Kengkhetkit, Taweechai Amornsakchai and Supatra Pratumshat
PBCG-P23	<b>Investigating the Effect of Modified Epoxy Polymer on Fuel Resistance of Asphalt Joint Sealant</b> <u>Panisa Sangnak</u> , Polphat Ruamcharoen, Saranagon Hemavibool and Chor. Wayakron Phetphaisit
<b>Rubbers/Elastomers (RUBB)</b>	
RUBB-P1	<b>Effect of protein-based stabilizer on the storage hardening of natural rubber</b> <u>Pivanut Promkaowthong</u> and Wirasak Smitthipong
RUBB-P2	<b>The effect of layered double hydroxide on the flame retardancy and mechanical properties of natural rubber latex foam</b> <u>Kattareen Boonchuay</u> , Chakrit Sirisinha, and Adun Nimpaiboon
RUBB-P3	<b>Study of Mechanical Properties and Electrical Conductivity of Stretchable Conductive Rubber Composite from Silver Coated Pineapple Leaf Fiber and Natural Rubber</b> <u>Jiraphat Chuchat</u> , Taweechai Amornsakchai, and Sombat Thanawan
RUBB-P4	<b>Study of preparation of low molecular weight epoxidized natural rubber applied for epoxy waterborne coating</b> <u>Tiphanan Jaenjai</u> , Wasan Tessanan, Thunchanok Ratvijitvech, Ratana Chanthateyanonth and Pranee Phinyocheep
RUBB-P5	<b>Peroxide Pre-vulcanisation of Deproteinised Natural Rubber Latex: Protein Interplay on Vulcanisation Efficiency and Mechanical properties</b> <u>Manus Sriring</u> and Thitipan Watcharakan