

Date : 12 Feb 2026

Session : Polymer Chemistry and Bio-based Materials

Room : M2

Time	Presentation Code	Topic	Presenter	Section
14.30-14.55	PC-K-01	Mechanically-induced Phase Transition Behavior of Crystalline Polymers: Focused on the Shish-Kebab Structure Formation Phenomenon of Ultra-drawn Natural Rubber	Prof.Dr. Kohji Tashiro	Chairman : Prof. Suwabun Chirachanchai Co-Chair : Assoc.Prof.Dr Gareth Ross
14.55-15.10	PC-O-01	Thermal insulation performance of silica aerogel composite with different pre-vulcanization times of natural rubber latex	Ms. Chayanan Boonrawd	
15.10-15.25	PC-O-02	Effect of Kappa-carrageenan on crosslink density and mechanical property of natural rubber composite	Mr. Sirawit Chonlakat	
15.25-15.40	PC-O-03	Study the effect of water uptake on the mechanical properties of the fully bio-composite from natural rubber and polysaccharides	Mr. Apiwat Srinarang	
15.40-15.55	PC-O-04	Natural tackifiers as functional modifiers of tapioca starch bioadhesives for corrugated paperboard packaging	Ms. Paweethida Pakkaihang	
15.55-16.10	PC-O-05	Design of Hydrophobic Alginate-Based Polymers for Food Packaging Applications	Ms. Paramabhorn Tosuwan	
16.10-16.20	Coffee Break			
16.20-16.45	PC-K-02	A metacrylamide-based biocompatible polymer platform intended for the synthesis of tailored drug delivery carriers	Dr. Libor Kostka	Chairman : Assoc.Prof.Dr Gareth Ross Co-Chair : Prof. Suwabun Chirachanchai
16.45-17.00	PC-O-06	Development and characterization of κ -carrageenan/PVOH-Tannic Acid hydrogels with enhanced mechanical strength and controlled release behavior	Ms. Worakamon Yawan	
17.00-17.15	PC-O-08	Chitosan-pectin core-shell hydrogel beads for encapsulation of red cabbage extract	Mr. Pansuang Putthanu	
17.15-17.30	PC-O-09	THERMAL STUDIES OF POLYETHYLENE FILM/RICE HUSK WASTE COMPOSITE	Ms. IBRAHIM MODU	

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17.30-17.45	PC-O-10	Development of a Peritoneum Tissue Phantom Based on PVA Hydrogel for Electrosurgical Training	Ms. Tareeya Manakornkowitz	

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08.30-08.55	PC-K-03	Self-repairing transparent coatings	Assoc.Prof.Dr. Daniel Crespy	<p style="text-align: center;">Oral 2 Chairman : Assoc.Prof.Dr Gareth Ross Co-Chair : Prof. Suwabun Chirachanchai</p>
08.55-09.20	PC-K-04	Multi-Stimuli Responsive Trimethyl Chitosan Nanogels: From Green Synthesis to Smart Drug Delivery	Assoc.Prof.Dr. Panya Sunintaboon	
09.20-09.35	PC-O-11	Green Ternary Biopolymer/Carbon Quantum Dots Nanocomposite Film: Preparation and Characterization	Mr. Arnon Phonrat	
09.35-09.50	PC-O-12	Influence of Molecular Structure and Crystallization Behavior on the 3D Printing Performance of Polypropylene-Based Materials	Ms. Kawinthip Inthana	
09.50-10.05	PC-O-13	Bio-based zein-stearic acid coatings for enhancing water resistance of paper packaging	Mr. Ittikorn Singkhonart	
10.05-10.20	PC-O-14	Upcycling Used Poly(Lactic Acid) with Polyethylene Glycol and Micro-Cellulose Synthesized from Waste Office Paper for Bio-Packaging Applications	Ms. Chatkun Puakpong	

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14.15-14.40	PC-K-05	Next-generation bioplastics, from photobiodegradation to extreme stabilization	Prof. Tatsuo Kaneko	<p style="text-align: center;">Oral 3 Chairman : Prof. Suwabun Chirachanchai Co-Chair : Assoc.Prof.Dr Gareth Ross</p>
14.40-14.55	PC-O-15	Balancing performance and environmental impact: recyclable fluorinated polymers in solid-state batteries	Ms. Kanyapat Yiamsawat	
14.55-15.10	PC-O-16	Chelating Polymers for Next-Generation Sustainable Scale Inhibition	Mr. Nantawat Kaekratoke	
15.10-15.25	PC-O-17	Bio-based Coating Technology for the Conservation and Preservation of Teak Structural Wood in Mrigadayavan Palace	Ms. Phornnutcha Phetcharach	
15.25-15.40	PC-O-18	Gradient Polymer–Nanoglass Scaffolds for Cartilage–Bone Interface Engineering	Asst.Prof.Dr. Aruna Prasopthum	

Poster Presentation 2 : 13 Feb 2026		
Session : Polymer Chemistry and Bio-based Materials		
Presentation Code	Topic	Presenter
PC-P-01	Monosubstituent Effects on Lithium <i>N</i> -Heterocyclic Carbene Complexes in the Room-Temperature Ring-Opening Polymerization of ϵ -Caprolactone	Mr. Apisit Intachai
PC-P-02	Synthesis of photocrosslinkable zwitterionic quaternized chitosan-based hydrogel with synergistic antibacterial and antifouling activities for biomaterial applications	Mr. Petchgaw Kanjanawattana
PC-P-03	Application of Ozonation as a Post-Curing Treatment of 3D-Printed Resins for Food-Grade Silicone Casting	Ms. Suphannika Thipkawi
PC-P-04	Crosslinked PLA Prepared via Benzophenone-Derived Photoinitiator for Encapsulation Applications	Mr. Panuwat Plengjaroensirichai
PC-P-05	Preparation and comparison of polyamide 12 composites adding ceramic Aluminum-based powder or non-magnetic Ferric oxide powder	Assoc. Prof. Dr. Nattakarn Hongsrphan
PC-P-06	Curing Behaviors and Thermal Properties of Bio-based Benzoxazine and Poly(dimethylsiloxane) (H-fa/PDMS) polymers	Mr. Nattapon Chaiwichian
PC-P-07	Study on the Thermal Properties of Bio-based Polybenzoxazine (H-fa) and Polyethylene glycol (PEG) Blends	Ms. Naritsara Chaipakdee

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PC-P-08	Biodegradable Cassava Starch–Natural Rubber/GO-COOH Hybrid Nanocomposite Hydrogels: Fabrication and Performance Evaluation	Prof.Dr. Sayant Saengsuwan
PC-P-09	Thermo-, Electro- and Magneto-Responsive Shape Memory Polymers Based on Natural Rubber Nanocomposites	Ms. Sutihabiba Yaena
PC-P-11	Influence of thermoplastic vulcanizates from recycled plastic and natural rubber on asphaltic concrete properties	Mr. Supavit Mettavimon
PC-P-12	Development of a Colorimetric Plasmonic Nanosensor as a Dual Dosimeter Based on Hybrid Nanomaterials and Natural Polymers for Radiotherapy Dosimetry Applications	Ms. Phavinee Choosin
PC-P-13	Investigation of binding affinity of molecularly imprinted polymer nanoparticles targeting herpes simplex virus type 2	Ms. Maliwan Srisuk
PC-P-14	Point-of-Care Analysis of Tear Biomarkers	Mr. Mohammed Shamrez
PC-P-15	LAC DYEING OF SILK USING PINEAPPLE CORE EXTRACT ENHANCED WITH CRICKET PROTEIN FOR IMPROVED COLOR FASTNESS	Ms. Ussaneeyaporn Lunkamphoe
PC-P-16	Preparation and properties of modified starch-epoxidized natural rubber for wood composite	Mr. Sa-Ad Riyajan
PC-P-17	UV-Assisted Citric Acid Crosslinking of Thermoplastic Starch from Pineapple Stem Starch toward High-Performance Biopolymer Films	Ms. Hataithip Sanpromma
PC-P-19	Application of Natural Rubber Film for the Detection of Low-Concentration Solutions	Ms. Ulaiya Payayam
PC-P-20	Hydrogel for Encapsulation of Essential Oil from Cardamom Seeds Cultivated in Chanthaburi and Trat Provinces	Ms. Wannapa Puiox
PC-P-21	Morphology and water absorption of oligo-chitosan/epoxidized linseed oil hybrid material	Mr. Natthawut Suriwong
PC-P-22	Mechanical and surface properties of plant-based leather sheets from pomelo peels and coconut fiber	Ms. SOPA INTARASORN