

Date : 12 Feb 2026				
Session : Environmental Chemistry and Renewable Energy				
Room : G9				
Time	Presentation Code	Topic	Presenter	Section
14.30-14.55	EE-K-01	Novel nitrogen removal from wastewater: toward energy- and resource-efficient solutions for a circular bioeconomy	Prof.Dr. Tawan Limpiyakorn	Oral 1A Chairman : Assoc.Prof.Dr. Ekasith Somsook Co-Chair : Prof.Dr. Shabbir Gheewala
14.55-15.15	EE-I-01	Integrating RAG-AI and citizen science for real-time fish safety assessment in transboundary mining-impacted watersheds	Assoc.Prof.Dr. Tanapon Phenrat	
15.15-15.30	EE-O-02	Analysis of cadmium in sediments by atomic absorption spectroscopy	Dr. Nattapong Srisook	
15.30-15.45	EE-O-03	Development of wastewater treatment system for coconut jelly processing entrepreneurs	Dr. Amornpon Changsuphan	
15.45-16.00	EE-O-05	Photocatalytic Degradation of Tetracycline Using Magnetic MnFe ₂ O ₄ /Biochar Nanocomposite	Dr. Alvin Lim Teik Zheng	
16.00-16.10	Coffee Break			
16.10-16.30	EE-I-02	The Holy River Ganga: A Lifeline for Millions	Asst.Prof.Dr. Dinesh Gupta	Oral 1B Chairman : Assoc.Prof.Dr. Ekasith Somsook Co-Chair : Assoc.Prof.Dr. Tanapon Phenrat
16.30-16.45	EE-O-07	Sustainable and Clean Power Generation from Human Footsteps in a Metro Rail Environment	Mr. Abtahi Taqui	
16.45-17.00	EE-O-09	Synergistic n-caproic acid production via co-culture of Enterococcus faecalis isolate VT-H1 and Clostridium kluyveri	Ms. Suttavadee Junyakul	
17.00-17.15	EE-O-10	Innovative development of clay-based proton exchange membrane for microbial fuel cell	Ms. Nachaya Phoopanna	

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08.30-08.55	EE-K-02	Are renewable energy systems always sustainable? A life cycle perspective	Prof.Dr. Shabbir Gheewala	Oral 2 Chairman : Assoc.Prof.Dr. Ekasith Somsook Co-Chair : Asst.Prof.Dr. Dinesh Gupta
08.55-09.15	EE-I-03	Nanostructured metal and metal oxide-based catalysts for waste valorization	Asst.Prof. Sudarsanam Putla	
09.15-09.30	EE-O-11	Development of a zeolite-based odor control agent from biomass ash for application in recycled plastic-modified asphalt	Dr. Nicha Prigyai	
09.30-09.45	EE-O-12	Experimental study and computational fluid dynamics modeling of bioethanol production from rice straw	Mr. Chitsanupong Uengudornbhakdee	
09.45-10.00	EE-O-13	Hierarchical Porous Carbon via Microwave-Assisted Starch Gelatinization for High-Performance Supercapacitors	Ms. Pharini Chaison	
10.00-10.15	EE-O-19	Tribological Performance of Carbon Nanomaterial-Modified Bio-Hydrogenated Diesel Under Reciprocating Contact	Mr. Taiphop Janrod	
10.15-10.30	EE-O-20	In-Situ Al-Doped ZnO Electrodes for High-Energy Asymmetric Supercapacitors and Durable Yarn-Based Flexible	Ms. Siriwas Suptawornkul	
10.30-14.30	Coffee Break			
14.30-14.50	EE-I-05	Ultrafine particles in urban atmosphere: advances and challenges	Dr. Win Trivitayanurak	Oral 3 Chairman : Assoc.Prof.Dr. Ekasith Somsook Co-Chair : Prof.Dr. Shabbir Gheewala
14.50-15.05	EE-O-21	3D Ni-doped rouaite architectures enabling superior supercapacitive and oxygen evolution performance	Ms. Vipada Petson	
15.05-15.20	EE-O-22	Dual-Salt Electrolytes for Dendrite Suppression in Lithium Metal Batteries	Ms. Naruemon Apinyakul	

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08.55-09.15	EE-I-04	Greener Phosphorus Chemistry: Redox-Neutral Pathway to Bulk Chemical Synthesis	Prof.Dr. Jan Weigand	Oral 2 Chairman : Assoc.Prof.Dr. Mrigendra Dubey
09.15-09.30	EE-O-14	Development of cathode material from torrefied Napier grass-derived activated carbon for sodium-ion capacitor	Ms. Phoipailin Chummek	
09.30-09.45	EE-O-15	Sustainable anode material from Durian peel-derived hard carbon with graphene oxide for sodium-ion batteries	Ms. Waritsara Chaioan	
09.45-10.00	EE-O-16	Synergistic effects of fluorine and sulfur-containing additives on electrochemical performance in glyme-based electrolytes for sodium-ion batteries	Ms. Nattida Maeboonruan	
10.00-10.15	EE-O-17	Performance Improvement of Low-energy Direct Regeneration of Spent Lithium Iron Phosphate (LiFePO ₄) Batteries	Dr. Parimol Tippayamalee	
10.15-10.30	EE-O-18	Effect of Al Loading on the Conversion of Glucose to 5-Hydroxymethylfurfural over HPW/Al-SBA-15 Catalysts	Ms. Pitchaya Palinsukhon	
10.30-14.30	Coffee Break			
14.30-14.50	EE-I-06	Molecular engineering to achieve multi-functional soft materials	Assoc.Prof.Dr. Mrigendra Dubey	Oral 3 Chairman : Asst.Prof.Dr. Dinesh Gupta Co-Chair : Asst.Prof. Sudarsanam Putla
14.50-15.05	EE-O-23	Direct Regeneration of Spent Lithium Iron Phosphate (LiFePO ₄) via Oxidative Leaching and Relithiation	Ms. Pharida Homket	
15.05-15.20	EE-O-24	Electrochemical Behavior of Macadamia Shell-Derived Activated Carbon in Various Neutral Aqueous Electrolytes for Supercapacitor	Mr. Kemchat Ruenroengrit	
15.20-15.35	EE-O-25	Synthesis and Modification of High-Energy Manganese-based Layered Oxide Cathodes for Lithium-ion Batteries	Dr. Panawan Vanaphuti	

Poster Presentation II : 12 Feb 2026		
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Presentation Code	Topic	Presenter
EE-P-01	Enhanced Adsorption of Reactive Dyes Using Activated Carbon from <i>Mimosa Pigra L.</i> : A Novel Approach to Textile Wastewater Treatment	Assoc.Prof.Dr. Ratana Sananmuang
EE-P-02	Development of Wastewater Treatment Procedures for Imatinib Manufacturing Facilities	Dr. Saranya Juntrapirom
EE-P-03	Development of Xylem-based Water Filtration System from Local Plants	Ms. Nareerat Kitisripanya
EE-P-04	Microwave-assisted functionalization of zeolite NaX with 3-aminopropyltriethoxysilane for arsenic removal in water	Mr. Asmi Kueji
EE-P-05	Removal of reactive red dye in synthetic sample by a simple electrocoagulation system	Asst.Prof.Dr. Orawan Kritsunankul
EE-P-06	Sustainable Production of NaOH-Activated Carbon from Cassava Rhizome for Efficient Methylene Blue Removal	Dr. Panadda Tansupo
EE-P-08	Affordable and stable paper-based electrochemical device for cyanide detection in drinking water	Dr. Sudkate Chaiyo
EE-P-09	PM2.5 emissions from stationary sources in Bangkok metropolitan region (BMR)	Mr. Jirachatr Srisean
EE-P-10	Co-hydrothermal carbonization of durian husk and polystyrene packing waste for high-quality solid biofuel production	Assoc.Prof.Dr. Apiluck Eiad-ua
EE-P-11	Carbon Footprint Assessment of a Central Instrument Center for Advancing Sustainable Laboratory Management	Dr. Sureemas Meksawangwong
EE-P-12	Determination and Health Risk Assessment for PM exposure near the road construction site at Chombueng District, Ratchaburi Province	Mr. Paitoon Mueanpetch
EE-P-13	Development of highly efficient activated carbons from agricultural wastes as adsorbents for laboratory scale water treatment in order to remove dye in wastewater from a textile fiber dyeing of One Tambon One Product (OTOP)	Ms. Umaporn Boonniti
EE-P-14	Response of mangrove species to sea level rise in Trang Estuary, Thailand	Ms. Phatchada Nochit
EE-P-15	Subsoil organic carbon pool in forest soils inferred from stable isotopic carbon and particle size distribution	Mr. Wutthikrai Kulsawat

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EE-P-16	Development of a radiochemical method for determination of strontium-90 in soil/sediment samples using solvent extraction and cherenkov radiation detection	Dr. Pannaporn Pusomjit
EE-P-17	Sustainable biobased charcoal lighter fluid derived from biodiesel and low-emission oxygenated compounds	Dr. Parncheewa Udomsap
EE-P-18	Community-based plastic pyrolysis for circular economy and local energy substitution	Dr. Rujira Jitrwung
EE-P-19	Comparative Study of CO ₂ Absorption Capacity and Energy Consumption of MEA and DEA in Four Solvent Systems: Water, Methanol, Ethanol, Acetone	Ms. Sasiphan Deenan
EE-P-20	Data-Driven Analysis of Pyrolysis Efficiency and Energy Consumption of PP, PE, and Mixed Waste Plastics toward a Sustainable Future of Chemistry	Mr. Parinya Thongyindee
EE-P-21	Combined methane reforming over Ni/Al ₂ O ₃ : stability, carbon resistance, and syngas quality for methanol synthesis	Dr. Kuntima krekkeitsakul
EE-P-25	Sustainable roselle waste-derived activated carbon modified with carbendazim fungicide for high-performance supercapacitor	Asst.Prof.Dr. Nichaphat Thongsai
EE-P-26	Valorization of kratom (<i>Mitragyna speciosa</i>) leaf residues for bio-briquette fuel and high-purity cellulose production	Ms. Lalita Thummawut
EE-P-27	Stability of alkaline metal oxide catalysts prepared from various shellfish via microwave-assisted transesterification of natural oil for biodiesel production	Dr. Anusorn Vorasingha
EE-P-28	Hydrothermal Carbonization of Palm Empty Fruit Bunches: Influence of Temperature and Reaction Time on Gas and Liquid Products	Mr. Wanchana sisuthog
EE-P-29	Recent development in bio-based thermal insulation from native agricultural residues	Asst.Prof.Dr. Waraporn Rattanongphisat
EE-P-30	Synergistic effect of CuO with polyaniline as a capacitive enhancer for high-performance supercapacitors	Ms. Buachompoo Pengkred

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EE-P-32	Effect of Ni substitution by Al on hydrogen storage properties of $\text{La}_{0.6}\text{Ce}_{0.4}\text{Ni}_5$	Ms. Piyathida Termsombut