

PART 2						
	<b>Session 1:</b> AI Digital Tools for Process & Materials Engineering <b>Chair:</b> Dr. Ratchanon Piemjaiswang, CU <b>Room:</b> Mandarin A	<b>Session 2:</b> Cutting-Edge Catalysis <b>Session 4:</b> Energy Landscape Transformation: Renewable Generation, Storage, and Conversion <b>Chair:</b> Prof. Boonyarach Kitiyanan, PPC <b>Room:</b> Karaked	<b>Session 3:</b> Advanced Materials Innovation <b>Session 4:</b> Energy Landscape Transformation: Renewable Generation, Storage, and Conversion <b>Chair:</b> Dr. Rongrong Cheacharoen, MMRI Dr. Satita Thiangtham, MUT <b>Room:</b> Kannika	<b>Session 5:</b> Carbon & Sustainability Solutions for a Net-Zero Future <b>Chair:</b> Asst. Prof. Pichaya In-na, CU <b>Room:</b> Pornphairin	<b>Session 6:</b> The 9th Shanghai-Kyushu-Yeungnam (SKY2025) Symposium <b>Room:</b> Budsaba	<b>Session 7:</b> Workshop on Water 2025, by Shinshu University <b>Room:</b> Rodsukon
10.00-10.30	“A Synergy of AI and Physics-Based Modeling for pH Prediction in Tubular Reactor” <b>Assoc. Prof. Chanin Panjapornpon</b> Kasetsart University	“Metal–Organic Framework Materials for Energy-Efficient Ammonia Separation” <b>Dr. Shih-Yuan Chen</b> National Institute of Advanced Industrial Science and Technology (AIST)	“Li1.3Al0.3Ti1.7(PO4)3 Solid Electrolytes Synthesized by a Microwave-assisted Hydrothermal Reaction for Li all-solid-state Battery Applications” <b>Prof. Wei-Ren Liu</b> Chung Yuan Christian University	“Harnessing Clathrate Hydrates for Energy-Efficient Produced Water Management” <b>Assoc. Prof. Nagu Daraboina</b> The University of Tulsa		
10.30–11.00	“B-doped fullerene as a high-performance metal-free electrocatalyst for CO reduction reaction” <b>Prof. Jun Nakamura</b> The University of Electro-Communications (UEC Tokyo)	“Preparation and hybridization of titania particles to control the photocatalytic reactions” <b>Prof. Makoto OGAWA</b> Shinshu University	“Investigations of organic coverage (OC) design on lithium-ion battery and the beyond” <b>Prof. Fu-Ming Wang</b> National Taiwan University of Science and Technology	“Decoding Decarbonization through Clathrate Hydrates” <b>Prof. Praveen Linga</b> National University of Singapore		
11.00–11.30	“Informatics-based materials engineering and process optimization” <b>Mr. Omobayashi Kota</b> Hitachi High-Tech (Thailand) Ltd.	“Positioning Philippine Palm Oil in Southeast Asia’s Renewable Energy Transition” <b>Asst. Prof. Ashraf R. Khater</b> University of Negros Occidental-Recoletos <b>Asean</b>	“Biochar-Based Catalytic Platforms: Turning Organic Waste into Functional Materials for Environmental Decontamination” <b>Dr. He Zhang</b> University of Shanghai for Science and Technology	“Thailand CCUS Alliance (TCCA): Driving CCUS Technology for Carbon Neutrality and Net-Zero Emission Goals <b>Dr. Kajornsak Faungnawakij</b> NANOTEC, NSTDA		
11.30–11.45	“Integration of Process Simulation and Metaheuristic Optimization for Economic Enhancement in Oil and Gas Processing Systems” <b>Dr. Truong Thanh Tuan</b> Petrovietnam University <b>Asean</b>	“Novel Synthesis of SrTiO3/g-C3N4 photocatalysts for enhanced photocatalytic hydrogen evolution” <b>Ms. Chiramet Thatsanakunphan</b> <b>CAO1</b>	“A Novel Hydrothermal Synthesis Process of MIL-53(Al) using Bamboo Biochar as a Sustainable Precursor for CO2 Adsorption” <b>Mr. Pisit Phayutcharoenkun</b> <b>MATO1</b>	“What is NetZero? Why CCUS is important? How sustainable is this route?” <b>Prof. Rajnish Kumar</b> Indian Institute of Technology Madras		
11.45–12.00		“Systematic Variation of Oxygen Reduction Reaction Activity with the Number of Nitrogen Dopants in Iron Azaphthalocyanine” <b>Mr. Takayuki Morishima</b> <b>CAO2</b>	“ZIF-8 Derived Hierarchical N, S-Doped Carbon Nanocomposites with Embedded Metal Sulfides and Gold Nanoparticles for Label-Free Electrochemical CA-125 Detection” <b>Dr. Nattharika Runprapan</b> <b>MATO2</b>			
12.00-12.15	“Data-Driven NARX Modeling and MPC Control for Nonlinear CSTR Systems” <b>Mr. Kritsana Suwanamad</b> <b>AIO1</b>			“Development of Decarbonization Technologies in Indonesia to reach Net Zero Emission Goals” <b>Dr. Muhammad Mufti Azis</b> <b>Asean</b> Universitas Gadjah Mada		
12.15-12.30						
12.00–13.30	Lunch					