

## The 24<sup>th</sup> PPC Symposium on Petroleum, Petrochemicals, and Polymers and The 9<sup>th</sup> Research Symposium on Petrochemical and Materials Technology

At Mandarin Hotel Managed by Centre Point, Bangkok  
Tuesday 5 June 2018

8.00–8.30	<b>Registration</b>	Foyer
-----------	---------------------	-------

PART 1		
8.30–8.40	<b>Introductory and Welcome Remarks</b> <b>Prof. Suwabun Chirachanchai</b> , Dean, The Petroleum and Petrochemical College <b>Prof. Pramoch Rangsunvigit</b> , Director, Center of Excellence on Petrochemical and Materials Technology	Mandarin B & C
8.40–8.45	<b>Opening Remarks</b> <b>Prof. Bundhit Eua-arporn</b> , President, Chulalongkorn University	Mandarin B & C
8.45–9.00	<b>Sponsorship Recognition and Group Photograph</b>	Mandarin B & C
9.00–9.30	<b>KEYNOTE LECTURE:</b> <b>Energy and Petrochemicals: The Everyday Element</b> <b>Mr. Suchart Phowatthanasathian</b> , Director & Refinery Manager, Esso (Thailand) Public Company Limited	Mandarin B & C
9.30–10.00	<b>KEYNOTE LECTURE:</b> <b>Past and Current Development of Thailand Petrochemical Industry</b> <b>Mr. Worawat Pitayasiri</b> , Executive Vice President, Downstream Business Group Planning, PTT Public Company Limited	Mandarin B & C
10.00–10.30	<b>Exhibition</b> Booth Exhibition – Networking - Refreshment	Mandarin A

PART 2						
	Mandarin C		Mandarin B		Karakate	
10.30–12.00	10.30–11.00	<b>Partially Hydrogenated Fatty Acid Methyl Ester (H-FAME) as a New Biodiesel</b> <b>Prof. Yuji Yoshimura</b> Materials for Energy Research Unit, National Science and Technology Development Agency	10.30–11.00	<b>Crystallization Behavior of Linear Polyesters in Spin-coating Film-forming Processes</b> <b>Prof. Sono Sasaki</b> Department of Bio-based Material Science, Faculty of Fiber Science and Engineering, Kyoto Institute of Technology, Japan	10.30–10.45	<b>CONDUCTIVE &amp; ELECTROACTIVE POLYMERS</b> The Petroleum and Petrochemical College  <b>Composite Polymer Electrolyte Membrane of Molecular Sieve 13X/Sulfonated Poly(ether ketone ether sulfone) Blend Poly(phenylene ether ether sulfone) for Use in DMFC</b> <b>Dr. Sairung Changkhamchom</b>
	11.00–11.30	<b>Deposition of Silica and Titania on Functional Particles</b> <b>Prof. Makoto Ogawa</b> School of Energy Science and Engineering, Vidyasirimedhi Institute of Science and Technology	11.00–11.30	<b>Clathrate Hydrate: A Technology Enabler to Strengthen Energy-Water Nexus</b> <b>Assoc. Prof. Praveen Linga</b> Department of Chemical and Biomolecular Engineering, National University of Singapore	10.45–11.00	<b>Synthesis of Biopolymer-coated Magnetite Nanoparticle for Cancer Drug Delivery</b> <b>Dr. Nophwan Paradee</b>
					11.00–11.15	<b>Room Temperature Methanol Sensor based on Conductive Polyindole</b> <b>Ms. Katesara Phasuksom</b>
					11.15–11.30	<b>Effects of Graphene Concentration and Electric Field Strength on Electromechanical Properties of Plasticized Poly(lactic acid)</b> <b>Ms. Natlita Thummarungsan</b>

PART 2 (Cont.)						
		Mandarin C	Mandarin B		Karakate	
	11.30–12.00	<b>Inorganic Nanosheets for Soft Materials: Liquid Crystal, Composite Gel, and Structural Color</b> <b>Prof. Nobuyoshi Miyamoto</b> Department of Life, Environment and Materials Chemistry, Faculty of Engineering, Fukuoka Institute of Technology, Japan	11.30–12.00	<b>Simultaneous Enhancement of Mechanical Performance for Polymer Composites</b> <b>Dr. Warintorn Thitsartarn</b> Deputy Head of Polymer Composite Institute of Materials Research & Engineering, Agency for Science, Technology and Research, Singapore	11.30–11.45	<b>Electrical Conductivity Responses of ZSM-5 Zeolite and its Ion-exchanged Forms Towards Sulfur Dioxide</b> <b>Mr. Pongpol Choeichom</b>
					11.45–12.00	<b>Synthesis and Characterization of Poly(N-methylaniline) Nanoparticles via Chemical Oxidation Polymerization</b> <b>Ms. Chatrawee Direksilp</b>
12.00–13.30	<b>Lunch</b>					

PART 3						
		Mandarin C			Mandarin B	
13.30–14.00	<b>KEYNOTE LECTURE: Efficient Process for Ethanol Production from Naturally Occurring Thai Grasses</b> <b>Prof. Sujitra Wongkasemjit</b> , The Petroleum and Petrochemical College					<b>PETROMAT'S SPECIAL LECTURE:</b>  <b>EECI: A Translational Research Platform Supporting Thailand 4.0</b>  <b>Dr. Janekrishna Kanatharana</b> Executive Vice President for Special Affairs, National Science and Technology Development Agency
14.00–14.30	<b>KEYNOTE LECTURE: Nanostructured Polymers and Materials for Oil &amp; Gas</b> <b>Prof. Rigoberto Advincula</b> , Case Western Reserve University, USA					
<b>POSTGRADUATE RESEARCH PRESENTATION</b>						
		<b>Mandarin C</b>	<b>Karakate</b>	<b>Rossukon</b>		
14.30–14.45	<b>CATALYSIS: A Simple Mechanical Alloying Technique for Green Catalyst Synthesis</b> <b>Mr. Sakollaphat Pithakratanayothin</b> Chulalongkorn University	<b>SURFACTANT, SEPARATION &amp; ENVIRONMENT: Study on the Development of Chitosan Composite Membrane for Separation of Nitrogen/n-Hexane/1-Butene Mixed Gas</b> <b>Mr. Panuwad Pawilai</b> Chulalongkorn University	<b>RENEWABLE ENERGY: Trade-offs Between Land and Water Requirements of Oil Palm Biodiesel Production in Thailand</b> <b>Dr. Worayut Saibuatrong</b> Kasetsart University			
14.45–15.00	<b>CATALYSIS: Solid Acid Catalyst Prepared via One-step Hydrothermal Carbonization for 5-Hydroxymethylfurfural Production</b> <b>Mrs. Phornwimol Siabbarung.</b> Chulalongkorn University	<b>PROCESS &amp; SYSTEMS ENGINEERING: The Effect of Higher order Discretization Scheme on Velocity Profile and Power Number of Rushton Turbine in Standard Mixing Tank</b> <b>Mr. Arthorn Dendee</b> Chulalongkorn University	<b>RENEWABLE ENERGY: Effect of Surface Acidity of Catalyst on the Pyrolysis of High Density Polyethylene</b> <b>Mr. Ratchanon Chantanuson</b> Chulalongkorn University			
15.00–15.15	<b>CATALYSIS: Effect of Silica Supports on Performance of Ni Catalyst for Partial Hydrogenation of Biodiesel</b> <b>Mr. Supanut Phumpradit</b> Chulalongkorn University	<b>PROCESS &amp; SYSTEMS ENGINEERING: Effect of Temperature and Aeration on the Cell Production of Juice Fermentation</b> <b>Mr. Nutthawat Mingmeechai</b> Chulalongkorn University	<b>SMART &amp; ADVANCED MATERIALS: Fabrication of Porous Slumping Mold Using Fused Silica Crucible Waste</b> <b>Ms. Kedkaew Kanlai</b> Chulalongkorn University			



PART 3 (Cont.)					
		Mandarin C		Mandarin B	
		POSTGRADUATE RESEARCH PRESENTATION			
		Mandarin C	Karakate	Rossukon	
15.15– 15.30	<b>CATALYSIS:</b> Effect of $ZrO_2-Al_2O_3$ Composite Oxides on Hydrodeoxygenation of Guaiacol Using NiMo-Based Catalyst <b>Ms. Chanisara Phanpa</b> Chulalongkorn University	-		<b>SMART &amp; ADVANCED            MATERIALS:</b> Intrinsically photodegradable Hydrogels for Preprogrammed UV induced formation and degradation of Hydrogels <b>Mr. Johannes Scheiger</b> Karlsruhe Institute of Technology, Germany	PETROMAT'S SPECIAL LECTURE (Cont.)
15.30– 15.50	Networking & Refreshment Break			Mandarin A	
PART 4					
15.50– 16.30	Poster Presentation & Evaluation			Budsaba	

Note: The agenda is subject to change without notice.