

## International Conference on Green Chemical Engineering and Technology (GCET 2025)

*2<sup>nd</sup> September 2025 (DAY 1 - AFTERNOON)*

GCET Session 1; Venue : Pinnacle 6 at Level M1, The Vertical

### **THEME: GREEN TECHNOLOGY/ SAFETY AND HEALTH/ HALAL TECHNOLOGY**

<b>Time (GMT +8)</b>	<b>Presentation Title</b>	<b>Presenter</b>	<b>Abstract ID</b>	<b>Chairperson/Emcee</b>
1400 - 1415	<b>OPENING CEREMONY</b> (by DEAN/HOC UniKL MICET) Emcee: Dr Amin Safwan Alikasturi			
1430 - 1500	<b>Keynote I:</b> “From Waste to Wealth: Circular Economy Approaches in Membrane Technology” Professor Datuk Ir Ts Dr Ahmad Fauzi Ismail (UTM)			<b>Chairperson:</b> AP Dr Leong Chean Ring
1500 - 1530	<b>Keynote II:</b> “Sustainable by Design - A New Approach for Upstream Projects” Ir. M Jauhari Hashim, Peng, CEng (PETRONAS)			
1530 - 1600	<b>Keynote III:</b> “Global Energy Transition at the Crossroads: From Vision to Action” Dr Nora Yusma Mohamed Yusoff (UNITEN)			

1600 - 1615	A Blockchain-AI-IoT Hybrid Framework for Enhancing Halal Certification Integrity and Supply Chain Traceability: A Malaysian Case Study	Muhammad Muntasir Yakubu	GO 885	Dr Amin Safwan Alikasturi
1620 – 1635	Non-compliance factors in the halal certification management: a case study at an Islamic agency in Malaysia	Madihatun Zainuddin	GO 897	
1640 – 1655	Microwave-Assisted Synthesis of Activated Carbon from Rubber Seed and Coconut Shells for CO <sub>2</sub> Capture	Halimatun Syafiqah Mohd Radzi	GO 887	
1700 – 1715	Engineering Green Solutions for Household E-waste: Policy, Infrastructure, and Circular Innovation	Zaipul Anwar Zainu	GO 191	
1720 – 1735	A study on synthesis of biodiesel from palm oil with high free fatty acid content using electrocatalysis method	Jagathisswary Satee	GO 509	

3rd September 2025 (Day 2 - MORNING)

GCET Session 1: Pinnacle 6 at Level M1, The Vertical

**THEME: CHEMICAL ENGINEERING & BIOCHEMICAL ENGINEERING**

Time (GMT +8)	Presentation Title	Presenter	Abstract ID	Chairperson
0830 – 0845	A Waste-To-Energy conversion of Nitrile Rubber Gloves into Densified Biochar via Pyrolysis Process	Dr Siti Nurul Atikah	GO 034	AP Dr Leong Chean Ring
0850 – 0905	Antibiofilm activity of gaseous ozone on methicillin resistant staphylococcus aureus (MRSA)	Fatima Amlis	GO 394	
0910 – 0925	Comparative Study of Resistant Starch Type III from Different Parts of Sago Palm and Its Application in Kefir Drinks	Rinani Shima Abd Rashid (	GO 415	
0930 – 0945		Dr Farah Salina Hussin	GO 419	

	Development of Functional Probiotic Chocolate for Improved Well-Being			
0950 – 1005	Food Waste Management for Campus Sustainability: A Data-Driven Case Study of UniKL MICET Cafeterias	Mohd Syazwan Mohd Ghazali	GO 003	
1010 - 1025	Exploring Microalgal and Macroalgal Pigments as Natural Colourants in Nail Polish Application	Pichaya In-na	GO 567	Dr Ir Chin Lip Han
1030 – 1045	Sustainable Food Packaging: Recyclable Butterfly Pea Anthocyanin-Loaded Beads for Enhanced Freshness Monitoring Aligned with SDG 12	Dr Nurdiyana Husin	GO 246	
1050 – 1105	Antioxidant and UV Protection Properties of Butterfly Pea Extract ( <i>Clitoria ternatea</i> ) in Cosmetic Formulations	Dr Zainatul'Asyiqin Samsu	GO 849	
1110 – 1125	Development and Physicochemical Evaluation of Active-Enriched Powder Cleansers: A Sustainable	Fara Wahida Ahmad Hamidi	GO 878	

	Alternative to Conventional Liquid Skincare			
1130 – 1145	Microwave-Assisted Synthesis of Carbon Dots from Different Mangosteen Peel Extracts: A Comparative Spectroscopic Study	Donni Kis Apriyanto	GO 632	
1150 – 1205	Virtual Screening of Sea Cucumber-Derived Peptides Targeting Angiotensin-Converting Enzyme (ACE) Through In-Silico Digestion and Molecular Simulations	Mohamad Zulkeflee Sabri	GO 928	
1210 – 1225	Effect of Base Oil Type on Physicochemical Properties of Lithium-Based Greases	Aina Natasha	GO 585	AP ChM Ts Dr Norzahir Sapawe
1230 – 1245	Tribological Evaluation of Artificial Skin: Influence of Moisture and Serum on Frictional Behavior	Muhammad Asyraaf Osman	GO 368	
1250 – 1305	Fabrication and Electrochemical Evaluation of ZnOFe <sub>2</sub> O <sub>3</sub> /rGO-MOF as an Anode Material in Glucose Oxidation	Dr Norilhamiah Yahya	GO 173	

1310 – 1325	Thermal Degradation Kinetic Analysis of Plastic-Biomass Composites During Co-Pyrolysis Using the Modified Coats-Redfern Method	Dr Fahmi Asyadi Md Yusof	GO 209
1330 – 1345	Bridging Analog and Digital: Film Density Measurement via Densitometry and Digital Histograms	Salihin Saidi	GO 628
1345 – 1400	Rational Engineering of Human Arginase I for Enhanced Enzymatic Performance	AP Dr Leong Chean Ring	GO 917

3<sup>rd</sup> September 2025 (Day 2 - AFTERNOON)

GCET Session 2: Pinnacale 6 at Level M1, The Vertical

**THEME: GREEN TECHNOLOGY & CHEMICAL ENGINEERING**

<b>Time (GMT +8)</b>	<b>Presentation Title</b>	<b>Presenter</b>	<b>Abstract ID</b>	<b>Chairperson</b>
1400 – 1415	Recycling of Spent Garnet via Organic Acid Washing Method	Dr Amelia Md Som	GO 307	AP Ts Dr Ong Siew Kooi
1420 – 1435	Performance Evaluation of Chicken Eggshell as a Sustainable Filler in Cement Mortar	Nurriswin Jumadi	GO 338	
1440 – 1455	Unlocking Chlorella vulgaris: A Natural Deep Eutectic Solvent (NaDES) Approach for Efficient Cell Wall Disruption and Protein Recovery	Anis Alysha Mat Ropi	GO 280	
1500 – 1515	Advancing Environmental Sustainability through Green	Norlia Mohamad Ibrahim	GO 642	

	Technology using Waste Tire Carbon Black as A Cement Alternative			
1520 – 1535	Green Interface Engineering with Nanocellulose for Enhanced Quantum Dot Solar Cell Performance	Jocelyn Jean Yi Lim	GO 901	
1540 - 1555	Improving Biodiesel Purification with Phosphoric Acid: Finding the Right Dosage for Lower Soap, Acid Value and Ester Yield	Eko Supriadi	GO 790	
1600 – 1615	Impact of CdS Nanoparticle on PEDOT:PSS Performance Towards Ultrasensitive and Reliable NO <sub>2</sub> Sensor	Maamon Omar Ahmed Farea	GO 865	Dr Ir Chin Lip Han
1620 – 1635	Advancing Climate Action Through AI-Enhanced, Physics-Informed Monitoring for Secure and Sustainable CO <sub>2</sub> Storage	Salida Muhamad Baharum	GO 876	
1640 - 1655	Evaluation of Biodiesel as a Green Carrier for Natural Insecticides in an Attract-and-Kill Method	Faridah Ghafar	GO 890	

1700 - 1715	Green Synthesis of Fuel Bioadditive Solketal from Glycerol using Poly Aluminium Chloride (PAC) as The Polyprotic Heterogenous Catalyst	Tatang Shabur Julianto	GO 905	Dr Ir Chin Lip Han
1720 – 1735	Toward Sustainable Biomass Valorization: Pd-Supported Catalyst for Levulinic Acid Production from Cellulose	Puteri Nurain Syahirah Megat Muhammad Kamal	GO 243	
1740 – 1755	Characterization of artificial skin model by incorporating polyvinyl alcohol (pva) and polydimethylsiloxane (pdms)	Nurul Syahirah Mohd Pozi	GO 357	
1800 – 1815	Performance of chemical activated salvinia root as natural adsorbent for wastewater treatment	AP Dr In Nurul Hasyimah Mohd Amin	GO 348	