

# GENERAL PROGRAM / CONFERENCE AT A GLANCE

**Tuesday, 31<sup>st</sup> July 2018**

Time	Programme
15.00 pm – 17.00 pm	Registration

**Wednesday, 1<sup>st</sup> August 2018**

Time	Programme			
08.00 am – 08.30 am	Registration and Reception Welcoming tea			
08.30 am – 08.45 am	Welcome speech by the Chairman of ICCEIB2018 Associate Professor Dr. Cheng Chin Kui <b>Pacific Ballroom</b>			
<b>Parallel Session 1</b>				
Venue	Pacific Ballroom	Bunga Kenanga	Bunga Melor	Bunga Tanjung
8.45 am – 10.30 am	<b>TRACK A</b> Food and Biotechnology 1	<b>TRACK B</b> Energy Innovation I	<b>TRACK C</b> Water and Environmental Engineering I	<b>TRACK D</b> Advanced in Chemical Engineering I
10.30 am – 10.45 am	<b>REFRESHMENT / BOOTH EXHIBITION</b>			
10.45 am – 11.15 am	<b>Keynote 1</b> Prof Weeratunge Malalasekera, University of Loughborough, UK <i>“Renewable energy and role of hydrogen as a future fuel”</i> <b>Pacific Ballroom</b>			
11.15 am – 11.45 am	<b>Keynote 2</b> Prof (Neal) Tai-Shung Chung, National University of Singapore <i>“Sustainability by designing polymer membranes for water reuse, seawater desalination and osmotic power generation”</i> <b>Pacific Ballroom</b>			
11.45 am – 12.30 pm	<b>OFFICIAL OPENING CEREMONY/ BOOTH EXHIBITION</b>			
12.30 pm – 02.00 pm	<b>LUNCH</b>			
<b>Parallel Session 2</b>				
Venue	Pacific Ballroom	Bunga Kenanga	Bunga Melor	Bunga Tanjung
02.00 pm – 05.30 pm	<b>TRACK A</b> Food and Biotechnology Engineering II	<b>TRACK B</b> Energy Innovation II	<b>TRACK C</b> Water and Environmental Engineering II	<b>TRACK D</b> Advanced in Chemical Engineering II

05.30 pm – 06.00 pm	<b>REFRESHMENT</b>			
07.30 pm – 10.00 pm	<b>DINNER</b>			

**Thursday, 2<sup>nd</sup> August 2018**

<b>Time</b>	<b>Programme</b>				
08.00 am – 08.30 am	Welcoming tea				
	<b>Parallel Session 3</b>				
<b>Venue</b>	<b>Pacific Ballroom</b>	<b>Bunga Kenanga</b>	<b>Bunga Melor</b>	<b>Bunga Tanjung</b>	<b>Bunga Raya</b>
08.30 am – 10.00 am	<b>TRACK A</b> Food and Biotechnology Engineering III	<b>TRACK B</b> Energy Innovation III	<b>TRACK C</b> Water and Environmental Engineering III	<b>TRACK D</b> Advanced in Chemical Engineering III	<b>TRACK E</b> Advanced in Chemical Engineering IV
10.00 am – 10.15 am	<b>REFRESHMENT / BOOTH EXHIBITION</b>				
10.15 am – 10.45 am	<b>Keynote 3</b> Mr. Jan Peter Bredehoeft, BASF Petronas <i>“Energy optimization by BASF’s verbund concept”</i> <b>Pacific Ballroom</b>				
10.45 am – 11.15 am	<b>Keynote 4</b> Prof Ir. Dr. Nor Aishah binti Saidina Amin, Universiti Teknologi Malaysia <i>“Photocatalytic Carbon Dioxide Reduction to Fuels in Monolith Reactor”</i> <b>Pacific Ballroom</b>				
11.15 am – 11.45 am	<b>Keynote 5</b> Mr. Murali Samudram, Nestle (Malaysia) Sdn. Bhd. <i>“Sustainability Strategies and Practice in Nestle Malaysia”</i> <b>Pacific Ballroom</b>				
	<b>Parallel Session 4</b>				
<b>Venue</b>	<b>Pacific Ballroom</b>	<b>Bunga Kenanga</b>	<b>Bunga Melor</b>	<b>Bunga Tanjung</b>	<b>Bunga Raya</b>
12.00 pm – 01.00 pm	<b>TRACK A</b> Food and Biotechnology Engineering IV	<b>TRACK B</b> Energy Innovation IV	<b>TRACK C</b> Advanced in Chemical Engineering V	<b>TRACK D</b> Advanced in Chemical Engineering VI	<b>TRACK E</b> Advanced in Chemical Engineering VII
01.00 pm - 02.00 pm	<b>LUNCH</b>				
<b>Venue</b>	<b>Pacific Ballroom</b>	<b>Bunga Kenanga</b>	<b>Bunga Melor</b>	<b>Bunga Tanjung</b>	<b>Bunga Raya</b>

02.30 pm - 05.30 pm	<b>TRACK A</b> Food and Biotechnology Engineering V/ Energy Innovation V/ Advanced Chemical Engineering VIII	<b>TRACK B</b> Energy Innovation VI/ Advanced Chemical Engineering IX	<b>TRACK C</b> Advanced in Chemical Engineering Water & Environmental Engineering IV	<b>TRACK D</b> Advanced Chemical Engineering X	<b>TRACK E</b> Advanced in Chemical Engineering XI
05.30 pm - 06.00 pm	<b>REFRESHMENT</b>				

\*Note: Program details are subject to changes

## DETAIL PROGRAM

31 July 2018	
Time	Programme

15.00 – 18.00 Registration

01 August 2018	
Day 1 Time	Programme

08.00 – 08.30 Registration and Reception  
Welcoming tea

08.30 – 08.45 Welcome speech by the Chairman of ICCEIB 2018  
Associate Professor Dr. Cheng Chin Kui  
**Pacific Ballroom**

### Parallel Session 1

#### TRACK A: Food and Biotechnology I

**Chairman: Dr Mohammad Tazli Azizan (Universiti Teknologi PETRONAS)**

08.45 – 09.00 **Nurwadhah Azizan (Universiti Malaysia Pahang)**  
*Synthesis of sorbitol fatty acid ester through esterification of sorbitol and azelaic acid catalyzed by germanium (IV) oxide*

09.00 – 09.15 **Ahmed MohammedElnour (Universiti Islam Antarabangsa Malaysia)**  
*Gum arabic: determination of solvent effect on the extraction of phenolic compounds and antioxidant activity using principle component analysis*

09.15 – 09.30 **Sharifah Fathiyah binti Sy Mohamad (Universiti Malaysia Pahang)**  
*Factors influencing forward extraction of jacalin from aqueous phase into anionic reverse micelles*

09.30 – 09.45 **Nur Hanani Rushan (Universiti Malaysia Pahang)**  
*Fatty acid profile of microalgae harvesting via immobilized cell*

09.45 – 10.00 **Nur Izzati Iberahim (Universiti Malaysia Perlis)**  
*Extraction and characterization of omega-3 fatty acid from jade perch (Scortum barcoo) using enzymatic hydrolysis technique*

10.00 – 10.15 **Noor Idayu Mohd Nashiruddin (Universiti Teknologi Malaysia)**  
*Operating parameter optimization of pretreated pineapple leaves fiber (PALF) for enhancement sugar recovery*

10.15 – 10.30 **Dr Mohammad Tazli Azizan (Universiti Teknologi PETRONAS)**  
*Aqueous phase reforming of sorbitol over sonosynthesized Ca-doped Ni supported on Al<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> for production of value added chemicals*

**TRACK B: Energy Innovation I****Chairman: AP. Dr. Bawadi Abdullah (Universiti Teknologi PETRONAS)**

- 08.45 – 09.00 **Linjia Zhang (Jiangsu University)**  
*Performance enhancement of methane dry reforming reaction for syngas production over Ir/Ce<sub>0.9</sub>La<sub>0.1</sub>O<sub>2</sub>-nanorods catalysts*
- 09.00 – 09.15 **Assoc. Prof Ho Thi Thanh Van (Hochiminh City University of Natural Resources and Environment)**  
*High stable and co tolerant Pt/ITO electrocatalyst for direct methanol fuel cell*
- 09.15 – 09.30 **Fiona Wang Ming Ling (Universiti Malaysia Pahang)**  
*Organic polymers as additives in enhancement of laminar liquid flow in microchannels*
- 09.30 – 09.45 **Prof. Yao Jun Zhang (Xian University of Architecture and Technology)**  
*Renewable conversion of slag to graphene geopolymer for H<sub>2</sub> production and wastewater treatment*
- 09.45 – 10.00 **Prof. Aishah Abdul Jalil (Universiti Teknologi Malaysia)**  
*Effect of coupled catalyst loading and ionomer binder on oxygen reduction reaction in high-temperature PEMFC*
- 10.00 – 10.15 **Dr Ruwaida Abdul Rasid (Universiti Malaysia Pahang)**  
*An experimental study on the torrefaction of food waste*
- 10.15 – 10.30 **Dr. Ng Kim Hoong (Xiamen University Malaysia)**  
*Syngas production from palm oil mill effluent via catalytic steam reforming*

**TRACK C: Water and Environmental Engineering I****Chairman: Dr Shafirah Samsuri (Universiti Teknologi PETRONAS)**

- 08.45 – 09.00 **Mohd Najib Razali (Universiti Malaysia Pahang)**  
*Formulation of emulsified modified bitumen from industrial waste*
- 09.00 – 09.15 **Van Thuan Tran (Nguyen Tat Thanh University)**  
*Mil-53 (Fe) as a robust adsorbent for the removal of phenol and its derivatives under mild optimized conditions*
- 09.15 – 09.30 **Rock Keey Liew (Universiti Malaysia Terengganu)**  
*Treatment of palm oil mill effluent by metallic activated carbon derived from microwave pyrolysis of palm kernel shell*
- 09.30 - 09.45 **Yoke Wang Cheng (Universiti Malaysia Pahang)**  
*Syngas exploitation from novel catalytic steam reforming of palm oil mill effluent over lanthanum nickel trioxide*
- 09.45 – 10.00 **Dr Shafirah Samsuri (Universiti Teknologi PETRONAS)**  
*Water volume reduction of produced water brine and biodiesel wastewater by progressive freeze concentration*

10.00 – 10.15 **Yasmeen Hafiz (Universiti Teknologi PETRONAS)**  
*The potentials of the integrated ultrasonic membrane an aerobic system (IUMAS) as a single unit for industrial sugarcane wastewater treatment*

10.15 – 10.30 **Noor Syahida Mat Anan (Universiti Teknologi Malaysia)**  
*Fabrication of polyamide thin film photocatalytic membrane for bisphenol A removal under UV light irradiation*

**TRACK D: Advance in Chemical Engineering I**  
**Chairman: Dr. Duy-Trinh Nguyen (Nguyen Tat Thanh University)**

08.45 – 09.00 **Zeeshan Haider Jaffari (Universiti Tunku Abdul Rahman)**  
*Spindle-like Ag-doped BiFeO<sub>3</sub> nanocomposites with enhanced visible light photocatalytic activity for malachite green*

09.00 – 09.15 **Nur Aiza Abdul Fatah (Universiti Teknologi Malaysia)**  
*Isomerization of linear c<sub>5</sub>-c<sub>7</sub> over pt loaded on protonated fibrous silica@Y zeolite (Pt/Hsi@Y)*

09.15 – 09.30 **Dr. Duy-Trinh Nguyen (Nguyen Tat Thanh University)**  
*Effective photocatalytic activity of ni-doped mil-53(fe) under visible light irradiation*

09.30 – 09.45 **Dr. Xiaoxia Ou (University of Manchester)**  
*Hierarchically structured cellular foam catalysts for practical catalysis in flow*

09.45 – 10.00 **Dr. Nonni Soraya Sambudi (Universiti Teknologi PETRONAS)**  
*Effect of sodium hydroxide on microwave-assisted synthesis of carbon dots from eggshell membrane ashes and its degradation of methylene blue*

10.00 – 10.15 **Hassani Abdelkader (Universiti Putra Malaysia)**  
*Characterization of the inclusion complex of magnesium orotate-loaded chitosan polymer nanoparticles for drug delivery system*

10.15 – 10.30 **Nur'aini Raman Yusuf (Universiti Teknologi PETRONAS)**  
*Potential of functionalized nanoparticles in drilling fluids properties*

**Keynote session I**

10.45 - 11.15

**Keynote 1**

**Prof Weeratunge Malalasekera, University of Loughborough, UK**

*“Renewable energy and role of hydrogen as a future fuel”*

**Venue: Pacific Ballroom**

11.15 - 11.45

**Keynote 2**

**Prof (Neal) Tai-Shung Chung, National University of Singapore**

*“Sustainability by designing polymer membranes for water reuse, seawater desalination and osmotic power generation”*

**Venue : Pacific Ballroom**

11.45 - 12.30

**OFFICIAL OPENING CEREMONY & SITE VISIT**

## Parallel Session 2

### TRACK A: Food and Biotechnology II

**Chairman: Dr Saidatul Shima binti Jamari (Universiti Malaysia Pahang)**

- 14.00 – 14.15 **Wan Nadja Julika Wan Hamizan (Universiti Malaysia Pahang)**  
*Physicochemical and microbiological analysis of honey bees and stingless bees honey collected from local market in malaysia*
- 14.15 – 14.30 **Siti Nor Amira Rosli (Universiti Malaysia Pahang)**  
*Screening of culture conditions for production of xylanase from landfill soil bacteria*
- 14.30 – 14.45 **Mohamed Saad Bala Husain (Universiti Malaysia Pahang)**  
*Synthesis of hydrogel using keratien protein from chicken feather*
- 14.45 – 15.00 **Dr AKM Kafi (Universiti Malaysia Pahang)**  
*Improved glucose biosensor based on glucose oxidase-horseradish peroxidase/multiporous tin oxide modified-electrode*
- 15.00 – 15.15 **Dr Sidra Pervez (Hazara University Mansehra)**  
*Utilization of Agar and Agarose as Support Systems for Improvement in Catalytic Properties of Fungal Amyloglucosidase*
- 15.15 – 15.30 **Dr. Nguyen Duy Trinh (Nguyen Tat Thanh University)**  
*Maximization of essential oils yield from lemongrass using microwave-assisted hydrodistillation*
- 15.30 – 15.45 **Dr Azilah Ajit@Abd Aziz (Universiti Malaysia Pahang)**  
*Assessment of in-vitro antioxidant capacity and polyphenolic composition of frequently used legumes*
- 15.45 – 16.00 **Afan Hamzah (Institut Teknologi Sepuluh Nopember Surabaya)**  
*Synergistic work of two type cellulase immobilized on chitosan microparticle as biocatalyst for coconut husk hydrolysis*
- 16.00 – 16.15 **Dr. Nguyen Duy Trinh (Nguyen Tat Thanh University)**  
*Research on lemongrass oil extraction technology: hydrodistillation, steam distillation, and microwave-assisted hydrodistillation*
- 16.15 – 16.30 **Muhammad Sohail Latif (Universiti Tun Hussein Onn Malaysia)**  
*Green synthesis of centella asiatica (pegaga) flavonoids extract-mediated gold nanoparticles*
- 16.30 – 16.45 **Ainaa binti Abdul Kahar (University of Nottingham Malaysia Campus)**  
*Effects of drying on the colour and bioactive compound retention of backhousia citriodora (lemon myrtle) leaves*
- 16.45 – 17.00 **Hanan Mohamed Mohsin (Universiti Teknologi PETRONAS)**  
*Potassium glycinate and virgin coconut oil as environmentally absorbent for CO2 capture*

**TRACK B: Energy Innovation II****Chairman: Dr Muzakkir Mohammad Zainol (Universiti Teknologi Malaysia)**

- 14.00 – 14.15 **Dr Hwai Chyuan Ong (Universiti Malaya)**  
*Improvement of biodiesel synthesis via ultrasound assisted transesterification of jatropha oil*
- 14.15 – 14.30 **Dr Muzakkir Mohammad Zainol (Universiti Teknologi Malaysia)**  
*Synthesis and characterization of new carbon cryogel as catalyst for ethyl levulinate production*
- 14.30 – 14.45 **Nur Azeanni Abd Ghani (Universiti Teknologi PETRONAS)**  
*Dry reforming of methane for hydrogen production over Ni-Co catalysts: effect of Nb-Zr promoters*
- 14.45 – 15.00 **Dr Hwai Chyuan Ong (Universiti Malaya)**  
*Supported calcium methoxide catalyst for biodiesel production from rice bran oil*
- 15.00 – 15.15 **Dr. Yun Hau Ng (The University of New South Wales)**  
*Converting and Storing Solar Energy in Photoactive Oxide Semiconductors*
- 15.15 – 15.30 **Palida Tiencharoenwong (Kasetsart University)**  
*Ruthenium-chromium on alumina as an alternative catalyst for combustion of methane*
- 15.30 – 15.45 **Dr. Mohammad Tazli Azizan (Universiti Teknologi PETRONAS)**  
*The effect of metal loading over Ni/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Mo/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalysts on reaction routes of hydrodeoxygenation of rubber seed oil for green diesel production*
- 15.45 – 16.00 **Dr Amit Bhosale (Indian Institute Of Technology Madras India)**  
*Optimization of gasket for urfc with it's preliminary testing*
- 16.00 - 16.15 **Dr. Muhammad Tahir (Universiti Teknologi Malaysia)**  
*Protonated Cu@mwcnts/g-C<sub>3</sub>N<sub>4</sub> core/shell nanocatalyst toward visible light photoinduced CO<sub>2</sub> conversion to methanol*
- 16.15 - 16.30 **Beenish Tahir (Universiti Teknologi Malaysia)**  
*Silver loaded protonated graphitic carbon nitride (Ag/Pg-C<sub>3</sub>N<sub>4</sub>) nanorods for photoinduced CO<sub>2</sub> reduction with CH<sub>4</sub> in presence of H<sub>2</sub>O*
- 16.30 - 16.45 **Dr. Sumaiya Zainal Abidin (Universiti Malaysia Pahang)**  
*Hydrogen production via CO<sub>2</sub> dry reforming of glycerol over Re-Ni/CaO Catalysts.*
- 16.45 - 17.00 **Mazlin Idress (Universiti Teknologi PETRONAS)**  
*Enhancement of commercial kinetic hydrate inhibitor using cassava peels*
- 17.00 - 17.15 **Kwan-Woo Kim (Korea Institute of Carbon Convergence Technology)**  
*Activation energy of pyrolysis generated from super-heated steam recycling condition and mechanical properties of recycled carbon fibers*



- 17.15 - 17.30 **P.Y. Chao (Feng Chia University)**  
*Efficient photocatalytic hydrogen production by doped ZnS grown on Ni foam as porous immobilized photocatalysts*
- 17.30 - 17.45 **Bidattul Syirat Zainal (Universiti Malaya)**  
*UASFF start-up for BioH<sub>2</sub> and BioCH<sub>4</sub> production from POME*
- 17.45 - 18.00 **Dr. Muhammad Arif Ab Aziz (Universiti Teknologi Malaysia)**  
*Recent development on heterogeneous catalysts for syngas production via CO<sub>2</sub> utilization*
- 18.00 - 18.15 **Najwa Mohd Nor (Universiti Malaysia Pahang)**  
*Oil palm fiber ash characterization and application in solar evaporator for seawater desalination*

**TRACK C: Water and Environmental Engineering II**  
**Chairman: Dr Mohd Shafiq bin Mohd Sueb (Universiti Malaysia Pahang)**

- 14.00 - 14.15 **Rabiatuladawiyah Danial (Universiti Putra Malaysia)**  
*A comparison of iron steel and stainless steel electrodes in electrocoagulation process for glyphosate herbicide removal*
- 14.15 - 14.30 **Suhanna Natalya Mohd Suhaimy (Universiti Putra Malaysia)**  
*Removal of methylene blue in aqueous solution by using electrical arc furnace (EAF) slag*
- 14.30 - 14.45 **Dr Teguh Ariyanto (Gadjah Mada University)**  
*Role of the pore structure of Fe/C catalysts on heterogeneous Fenton oxidation*
- 14.45 - 15.00 **Assoc. Prof Dr. Lam Su Shiung (Universiti Malaysia Terengganu)**  
*Microwave pyrolysis with steam activation in producing activated carbon for removal of herbicides in agricultural surface water*
- 15.00 - 15.15 **Mariah Che Mamat (Universiti Malaysia Pahang)**  
*Oxidation of sulfide removal from petroleum refinery wastewater by using hydrogen peroxide*
- 15.15 - 15.30 **Mohammed Ngabura (Universiti Putra Malaysia)**  
*Optimization and activation of renewable durian husk for biosorption of Pb(II) from wastewater*
- 15.30 - 15.45 **Faten Ahada Mohd Azli (Universiti Malaysia Pahang)**  
*Degradation of chemical oxygen demand (COD) using electrocoagulation process in treating oleochemical wastewater*
- 15.45 - 16.00 **Nor Adzwa binti Rosli (Universiti Malaysia Pahang)**  
*Tropical tannin for engineering application; a review*
- 16.00 - 16.15 **Fatin Nasuha Binti Yahya (Universiti Malaysia Pahang)**  
*Sensitivity analysis of leaching process on rare earth elements by using METSIM software*

- 16.15 – 16.30      **Anisah Sajidah Haji Saud (Universiti Malaysia Pahang)**  
*Cobalt supported alumina catalyst for oxidation of glucose to gluconic acid under mild reaction conditions*
- 16.30 – 16.45      **Dr Min Young Song (University of Seoul)**  
*Hybrid reactor system comprised of non-thermal plasma and catalyst for VOCs removal from food waste*
- 16.45 – 17.00      **Dr Chew Thiam Leng (Universiti Teknologi PETRONAS)**  
*Ion exchanged silicoaluminophosphate-34 membrane for CO<sub>2</sub>/N<sub>2</sub> separation with CO<sub>2</sub> concentration as low as 5%*
- 17.00 – 17.15      **Mani Malam Ahmad (Universiti Malaysia Pahang)**  
*Aerobic biodegradation potential of proteobacteria mixed- culture consortium on inhibitory refinery effluent*
- 17.15 - 17.30      **Rahman Rahsya (Universiti Malaysia Pahang)**  
*Torrefaction of food waste as a potential biomass energy source*
- 17.30 - 17.45      **Norlaili Hashim (Universiti Malaysia Pahang)**  
*Extraction of phytosterol in legume pods of parkia speciosa, leucaena leucocephala and archidendron jiringa*
- 17.45 – 18.00      **Assoc. Prof. Dr. Norazwina Zainol (Universiti Malaysia Pahang)**  
*Analysis of factors affecting algae removal from petrochemical industry wastewater using biocide*

**TRACK D: Advance in Chemical Engineering II**  
**Chairman: Assoc. Prof. Dr. Cheng Chin Kui (Universiti Malaysia Pahang)**

- 14.00 – 14.15      **Prof Sang-Chul Jung (Sunchon National University)**  
*Degradation of 1,4-dichlorobenzene using hybrid TiO<sub>2</sub> photocatalytic system with microwave, MDEL, and hydrogen peroxide*
- 14.15 – 14.30      **Karina Aryanti Permatasari (Universiti Teknologi PETRONAS)**  
*Monitoring foam propagation in surfactant alternating gas (SAG) with oil using resistivity wave*
- 14.30 – 14.45      **Dr Ahmed Alfatesh (King Saud University)**  
*Performance of Sc promoted Ni/ MCM-41 catalyst in CO<sub>2</sub> reforming of CH<sub>4</sub>*
- 14.45 – 15.00      **Surached Thongboon (Kasetsart University)**  
*Effect of porous silica supports on the activity of ruthenium-copper based catalysts for propylene epoxidation*
- 15.00 – 15.15      **Nor Asikin Awang (Universiti Teknologi Malaysia)**  
*Adsorption behavior of heavy metals onto regenerated cellulose membrane*
- 15.15 – 15.30      **Ku Esyra Hani Ku Ishak (Universiti Teknologi PETRONAS)**  
*Removal of oil from surfactant/polymer (SP) flooding by using flotation column and statistical modelling*

- 15.30 – 15.45 **Yahya Gambo (Universiti Teknologi Malaysia)**  
*Pt-promoted HY@KCC-1 as a highly selective catalyst for hydroisomerization of n-dodecane with enhanced mass transfer limitation*
- 15.45 – 16.00 **Zahrotul Azizah (Institut Teknologi Sepuluh Nopember)**  
*Inverted decoupling mimo internal model control using mp tuning*
- 16.00 – 16.15 **Muhammad Yusuf Prajitno (University of Leeds)**  
*The effect of sodium and hydrochloric acid activation on clinoptilolite ion exchange of caesium and strontium in saline environments*
- 16.15 – 16.30 **Hye-Min Lee (Korea Institute of Carbon Convergence Technology)**  
*Effects of pore structures on VOCs absorption behaviors of activated carbons by polymeric precursor*
- 16.30 – 16.45 **Adrian Chun Minh Loy (Universiti Teknologi PETRONAS)**  
*Insights into catalytic fast pyrolysis of rice husk: thermochemical behaviour and kinetic study*
- 16.45 – 17.00 **Arash Badakhsh (Korea Institute of Carbon convergence Technology)**  
*Synergistic improvement of thermal conductivity of polypropylene composites reinforced by boron nitride-modified carbon fibers and graphite*
- 17.00 – 17.15 **W.C. Tsai (Feng Chia University)**  
*Cus-Zns decorated Fe<sub>3</sub>O<sub>4</sub> nanoparticles as magnetically separable composite photocatalysts with excellent hydrogen production activity*
- 17.15 - 17.30 **Dr Noor Ida Amalina Binti Ahamad Nordin (Universiti Malaysia Pahang)**  
*Effect of steam treatment on the characteristics of Oil palm empty fruit bunch and its biocomposite*
- 17.30 – 17.45 **Jamil Roslan (Universiti Malaysia Pahang)**  
*Effect of nickel and cerium loading on oil palm ash catalyst*
- 17.45 – 18.00 **Norazlianie Sazali (Universiti Teknologi Malaysia)**  
*Hydrogen separation through PI/NCC carbon membrane: Effect of stabilization environment and heating rates*
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Day 2	02 August 2018
Time	Programme

08.00 – 08.30 Welcoming tea

**Parallel Session 3**  
**TRACK A: Food and Biotechnology III**  
**Chairman: Dr Nabilah Zaini (Universiti Teknologi Malaysia)**

- 08.30 - 08.45 **Wafaa K. Mahmood (University of Technology, Baghdad, IRAQ)**  
*Portable industrial waste water treatment system*
- 08.45 – 09:00 **Muhammad Hafiz Muhammad Nizam (UNIKL MICET)**  
*Development of membrane processes for removal of ammoniacal nitrogen from fertiliser wastewater incorporated with bio-adsorption*
- 09:00 – 09:15 **Dr. Yu Lih Jiun (UCSI University)**  
*Filtering efficiency of activated carbon and zeolites in freshwater ponds*
- 09:15 – 09:30 **Riza Aris Hikmadiyar (Institut Teknologi Sepuluh Nopember)**  
*A control strategy for nonconventional column/rectifier configuration*
- 09:30 – 09:45 **Nawzat Aljbour (Universiti Malaysia Pahang)**  
*Producing different grades of chitosan oligomers*
- 09:45 – 10:00 **Dr .Tan Lian See (MJIIT Universiti Teknologi Malaysia)**  
*Impact of organic solvent to the corrosion of carbon steel in hybrid monoethanolamine solutions*
- 10:00 – 10:15 **Dr. Nabilah Zaini (Universiti Teknologi Malaysia)**  
*Assessment of green-based renewable material for oil-water separation*

**TRACK B: Energy Innovation III**  
**Chairman: Prof. Aishah Abdul Jalil (Universiti Teknologi Malaysia)**

- 08.30 - 08.45 **Yi Hao Chew (Monash Universiti)**  
*Interfacial engineering of zinc blend/wurtzite homojunction photocatalyst through hybridization with cobalt phosphide co-catalyst for enhanced visible-light-driven photocatalytic H<sub>2</sub> evolution*
- 08.45 – 09:00 **Nurul Aini Amran (Universiti Teknologi PETRONAS)**  
*Optimization of fractional freezing process for bioethanol purification*
- 09:00 – 09:15 **Nor Azah Ramli (Universiti Teknologi Malaysia)**  
*Optimization of medium compositions to enhance the production of 3-methyl-1-butanol in *saccharomyces cerevisiae* using response surface methodology*
- 09:15 – 09:30 **Kong Sieng Huat (University College of Technology Sarawak)**  
*Self-purging microwave pyrolysis (SPMP) : An innovative approach to convert palm biomass into high carbon biochar as potential activated carbon precursor*

- 09:30 – 09:45 **Norhuda Abdul Manaf (MJIIT Universiti Teknologi Malaysia)**  
*Economic and environmental sustainability of low carbon power generation – relevancy in Malaysia Green Technology Master Plan (GTMP)*
- 09:45 – 10:00 **Dr. Abid Hussanan (Universiti Malaysia Pahang)**  
*Analytical investigation of heat transfer in micropolar nanofluids with suspension of multi-wall carbon nanotubes in the presence of viscous dissipation*
- 10:00 – 10:15 **AP Dr. Bawadi Abdullah (Universiti Teknologi PETRONAS)**  
*Non-Oxidative Methane/Methanol mixture reforming over Mesoporous Ni-Cu/Al<sub>2</sub>O<sub>3</sub> co-doped catalyst for cleaner hydrogen production*

### TRACK C: Water and Environmental Engineering III

**Chairman: Dr. Noraziah binti Abu Yazid (Universiti Malaysia Pahang)**

- 08.30 - 08.45 **Maryam Ibrahim (Universiti Teknologi Malaysia)**  
*Tuned acidic properties of HMOR@KCC-1 for enhanced n-hexane isomerization*
- 08.45 – 09:00 **Dr. Chanin Panjapornpon (Kasetsart University, Thailand)**  
*Real-time implementation of pH control in a carbon dioxide bubble column reactor by input/output linearizing control strategy*
- 09:00 – 09:15 **Mohd Zulkifli Mohamad Noor (Universiti Malaysia Pahang)**  
*Silicon dioxide nanoparticle foam stability in tertiary petroleum*
- 09:15 – 09:30 **Adrian Chun Minh Loy (Universiti Teknologi Petronas)**  
*Effect of empty fruit bunch in waste cockle shell as precursor for CaO-based sorbent to capture CO<sub>2</sub>*
- 09:30 – 09:45 **Ying Chiao Li (Kasetsart University, Thailand)**  
*The preparation and electrochemical properties of melamine formaldehyde-polyvinyl alcohol/LiFePO<sub>4</sub> nanocomposite fiber as the lithium battery cathode for electrical vehicles*
- 09:45 – 10:00 **Dr. Ilya Mishakov (Boreskov Institute of Catalysis, Rusia)**  
*Synthesis of carbon nanomaterial via processing of dichloroethane on Ni-Mo self-organizing catalyst*
- 10.00 - 10.15 **Jitendra Carpenter (Malaviya National Institute of Technology)**  
*Impact of ultrasonication on multilayer oil in water emulsion characteristics: A comparative study between batch and recirculating flow process.*

### TRACK D: Advanced in Chemical Engineering III

**Chairman: AP. Dr. Juan Joon Ching (Universiti Malaya)**

- 08.30 - 08.45 **Dr. Ngatijo (University of Jambi, Indonesia)**  
*Sorption-desorption profile of au(iii) onto silica modified Quaternary amines (smqa) in gold mining effluent*

- 08.45 – 09:00 **AP. Dr. Juan Joon Ching (Universiti Malaya)**  
*Mesoporous TiO<sub>2</sub> for biofuel production via H<sub>2</sub>-free deoxygenation*
- 09:00 – 09:15 **Dr. Thongthai Witoon (Kasetsart University, Thailand)**  
*Monolayer coverage of sulfate ions over high surface area mesoporous zirconia as a highly active and stable acid catalyst admixed with a CuO-ZnO-ZrO<sub>2</sub> catalyst for CO<sub>2</sub> hydrogenation to dimethyl ether*
- 09:15 – 09:30 **Dr. Do Trung Sy (Institute of Chemistry VAST, Vietnam)**  
*Composite photocatalysts containing MIL-53(Fe) as a heterogeneous photocatalyst for the decolorization of rhodamine B under visible light irradiation*
- 09:30 – 09:45 **Long Giang Bach (Nguyen Tat Thanh University, Vietnam)**  
*Chemical Synthesis and Characterization of Poly(poly(ethylene glycol) methacrylate) Grafted CdTe Nanocrystals via RAFT Polymerization for Covalent Immobilization of Adenosine*
- 09:45 – 10:00 **Hesham Rassem (Universiti Malaysia Pahang)**  
*Supercritical CO<sub>2</sub> extraction of essential oil from jasmine flower and yield optimization*
- 10:00 – 10:15 **Prof. Jung-Sik Kim (University of Seoul)**  
*Visible light photocatalytic properties of NaYF<sub>4</sub>:(Yb, Er)-CuO/TiO<sub>2</sub> composite*

**TRACK E: Advanced in Chemical Engineering IV**  
**Chairman: Prof Dr Abdurahman Hamid Nour (UMP)**

- 08.30 - 08.45 **N. K. M. Zain (Universiti Malaysia Pahang)**  
*Direct growth of triple cation metalorganic framework on a metal substrate for electrochemical energy storage*
- 08.45 – 09:00 **AP. Ho Thi Thanh Van (Hochiminh City University of Natural Resources and Environment)**  
*Advanced nanoelectrocatalyst of Pt nanoparticles supported on robust Ti<sub>0.7</sub>Ir<sub>0.3</sub>O<sub>2</sub> for methanol oxidation reaction*
- 09:00 – 09:15 **AP. Ho Thi Thanh Van (Hochiminh City University of Natural Resources and Environment)**  
*Facile synthesis of Ti<sub>0.9</sub>Ir<sub>0.1</sub>O<sub>2</sub> supported Pt for high activity and durability of methanol electro-oxidation reaction*
- 09:15 – 09:30 **AP. Ho Thi Thanh Van (Hochiminh City University of Natural Resources and Environment)**  
*Platinum supported on tungsten-modified titanium dioxide as an efficient electrocatalyst for direct methanol fuel cell*
- 09:30 – 09:45 **Mohd Razali bin Shamsudin (Universiti Putra Malaysia)**  
*Enhanced dry reforming toward hydrogen production over Ni/CeO<sub>2</sub>-SiO<sub>2</sub> via different catalyst synthesis routes*

- 09:45 – 10:00 **Dr Vo Nguyen Dai Viet (Universiti Malaysia Pahang)**  
*Interplay between promoters and Ni-based mesoporous silica for methane dry reforming reaction*
- 10:00 – 10:15 **Dr. Usman Dadum Hamza (Abubakar Tafawa Balewa University, Nigeria)**  
*Isosteric heat, regeneration and adsorption cycles for carbon dioxide adsorption on porous carbons*

## Keynote Session II

- 10.15 – 10.45 **Keynote 3**  
**Mr. Jan Peter Bredehoeft, BASF Petronas**  
*“Energy optimization by BASF’s verbund concept”*  
**Venue: Pacific Ballroom**
- 10.45 – 11.15 **Keynote 4**  
**Prof Ir. Dr. Nor Aishah binti Saidina Amin, Universiti Teknologi Malaysia**  
*“Photocatalytic Carbon Dioxide Reduction to Fuels in Monolith Reactor”*  
**Venue: Pacific Ballroom**
- 11.15 – 11.45 **Keynote 5**  
**Mr. Murali Samudram, Nestle (Malaysia) Sdn. Bhd.**  
*“Sustainability Strategies and Practice in Nestle Malaysia”*  
**Venue: Pacific Ballroom**

## Parallel Session 4

### TRACK A: Food and Biotechnology IV

**Chairman: Dr. Noorlisa Harun (Universiti Malaysia Pahang)**

- 12.00 – 12.15 **Nurmaryam Aini Hashim (Universiti Malaysia Pahang)**  
*Experimental design and molecular dynamics in herbal plant Processing: A Review*
- 12.15 – 12.30 **Dr. Noorlisa Harun (Universiti Malaysia Pahang)**  
*Anaerobic digestion of food waste for biogas production: A simulation approach*
- 12.30 – 12.45 **Dr. Tahira Batool (Women University of Azad Jammu and Kashmir Bagh Pakistan)**  
*Production optimization and characterization of anticancer enzyme L-asparaginase from bacillus sp. using moringa oleifera seeds*
- 12.45 – 13.00 **Nur Ezyan Badrul Hisham (Universiti Malaysia Pahang)**  
*Effect of rice husk ash on the physiochemical properties of compost*

**TRACK B: Energy Innovation IV****Chairman: Assoc. Prof. Dr. Cheng Chin Kui (Universiti Malaysia Pahang)**

- 12.00 – 12.15 **Jahirah binti Sazali (Universiti Malaysia Pahang)**  
*Microwave assisted thermal process of castor oil for the production of specialty chemical*
- 12.15 – 12.30 **Prodpran Siritheerasas (Thammasat University, Thailand)**  
*Product characterisation and energy analysis of the microwave torrefaction of moist municipal solid waste (MSW) pellets using char of bagasse as a microwave absorber*
- 12.30 – 12.45 **Prof. Jung-Sik Kim (University of Seoul)**  
*Chlorophyll-A adsorbed TiO<sub>2</sub> nano particles for extending photocatalytic applications in visible regio*
- 12.45 – 13.00 **Nur Nadira Hazani (Universiti Teknologi Mara)**  
*Synthesis, Characterisation, Crystal Structure and Anti-corrosion Studies of Organotin(IV) Complex of 2-acetylpyridine 4-ethyl-3-thiosemicarbazone: Sn(2Acpy4E3TSC)(3CH2CH3)2Cl2*

**TRACK C: Advanced in Chemical Engineering V****Chairman: Dr. Siti Kholijah Abdul Mudalip (Universiti Teknologi Malaysia)**

- 12.00 – 12.15 **Siti Hajar Saharudin (Universiti Malaysia Pahang)**  
*Fabrication of bone scaffolds from anadara granosa shell waste*
- 12.15 - 12.30 **Dr. Aleksey Vedyagin (Boreskov Institute of Catalysis, Rusia)**  
*Synthesis of binary Co-Mg-O oxide system and study of its behaviour in reduction/oxidation cycling*
- 12.30 – 12.45 **Dr. Aleksey Vedyagin (Boreskov Institute of Catalysis, Rusia)**  
*Synthesis and study of metastable Pt-Au nanoparticles*
- 12.45 – 13.00 **Sruthi Guru (Indian Institute of Technology Madras, India)**  
*Pillaring of polyoxometalates by layered triple hydroxides for Oxidative desulphurization of sulphur containing compounds*

**Track D : Advanced in Chemical Engineering VI****Chairman: Dr. Mohd Shaiful Zaidi Mat Desa (Universiti Malaysia Pahang)**

- 12.00 – 12.15 **Dr. Mohd Shaiful Zaidi Mat Desa (Universiti Malaysia Pahang)**  
*The effect of epoxidized natural rubber toughening on static and dynamic mechanical behavior of poly(lactic acid)-multiwalled carbon nanotubes nanocomposites*
- 12.15 – 12.30 **Dr. Long Giang Bach (Nguyen Tat Thanh University, Vietnam)**  
*Functionalization of halloysite nanotubes surfaces via controlled living radical polymerization for bioactive interface via covalent immobilization of penicillin*



- 12.30 – 12.45 **Kiat Moon Lee (UCSI University)**  
Type-2 fuzzy logic on karmen-mendel algorithm in optimisation of sequential ionic liquid dissolution-solid acid saccharification
- 12.45 – 13.00 **Joshua Zheyang Soo (Universiti Malaya)**  
Evolution in morphological and crystallinity behaviour of calcined PVP-assisted TiO<sub>2</sub> nanofibers and their effect on methylene blue degradation

**Track E : Advanced in Chemical Engineering VII**  
**Chairman: Dr. Teck Hock Lim (Tunku Abdul Rahman University College)**

- 12.00 – 12.15 **Teck Hock Lim (Tunku Abdul Rahman University College)**  
*Nanocellulose aerogel guided synthesis of lithium metal phosphate Nanocrystals and nanowires with surface carbon coating*
- 12.15 – 12.30 **Ahmad Hafidz Mohammad Fauzi (Universiti Malaysia Perlis)**  
*Computational fluid dynamics simulation of flow in dilution process: A case study of palm oil processing*
- 12.30 – 12.45 **Saidatul Sophia (Universiti Teknologi Malaysia)**  
*Evaluation of low-cost perfluorinated sulfonic acid membranes for vanadium redox flow battery*
- 12.45 – 13.00 **Prof. Mahn Jung Kim (Sogang University, South Korea)**  
*Regeneration of deactivated zeolites for aromatization by dielectric barrier discharge (DBD) plasma*

**Parallel Session 5**

**TRACK A: Food and Biotechnology V/Energy Innovation V/Advanced Chemical Engineering VIII**  
**Chairman: Dr Nurul Aini Mohd Azman (Universiti Malaysia Pahang)**

- 14.00 – 14.15 **Prof Dr Andri Cahyo Kumoro (Universitas Diponegoro)**  
*Extraction of andrographolide from andrographis paniculata dried leaves powder using supercritical CO<sub>2</sub> and ethanol mixtures*
- 14.15 – 14.30 **Noorhafiza Yahya (Universiti Malaysia Pahang)**  
*Characterization of new protease from *Murdannia bracteata**
- 14.30 – 14.45 **Azry Borhan (Universiti Teknologi Petronas)**  
*Characterization and modelling studies of CO<sub>2</sub> adsorption by rubber-seed shell activated carbon*
- 14.45 – 15.00 **Ying Chuin Yee (Universiti Sains Malaysia)**  
*Magnetic cellulose nanocrystals as a platform for enzyme immobilization*
- 15.00 – 15.15 **Nazerah Ahmad (Universiti Teknologi Malaysia)**  
*Synthesis and antibacterial evaluations of amine modified zeolitic imidazole framework-8(zif-8)*

- 15.15 – 15.30 **Pratibha Singh (National Institute of Technology, Karnataka (NITK) India)**  
*Kinetic studies of acetic acid with 1-octanol in the presence of amberlyst-15 wet*
- 15.30 – 15.45 **Muhammad Arif Fahmi Bin Supian (Universiti Malaysia Pahang)**  
*Production of cellulose nanofiber (cnf) from empty fruit bunch (efb) via mechanical method*
- 15.45 – 16.00 **Jibril Mohammed (Abubakar Tafawa Balewa University Bauchi, Nigeria)**  
*Potassium acetate – coconut shell activated carbon for adsorption of benzene and toluene: equilibrium and kinetic studies*
- 16.00 – 16.15 **Professor Azhari H. Nour (International University of Africa)**  
*Chemical composition and antimicrobial activity of Salvia officinalis essential oils*
- 16.15 – 16.30 **Professor Azhari H. Nour (International University of Africa)**  
*Chemical composition and antimicrobial activity of mint (mentha) essential oil*
- 16.30 – 16.45 **Ayu Haslija Abu Bakar (Universiti Putra Malaysia)**  
*Fluoride removal by palm kernel shell activated carbon (pksac): batch and isotherms approach*
- 16.45 – 17.00 **Professor Azhari H. Nour (International University of Africa)**  
*Effect of different extraction techniques on yield and quality of essential oils from rhizomes of cyperus rotundus*
- 17.00 - 17.15 **Olusegun abayomi olalere (Universiti Malaysia Pahang)**  
*Parameter screening in ethanolic extraction of total phenolics extracts from Sesamum indicum l. Using single factor and two-level factorial design*
- 17.15 - 17.30 **Khadijah Husna Abd. Mutalip (Universiti Malaysia Pahang)**  
*Semi-refined carrageenan (SRC) film incorporated with  $\alpha$ -tocopherol and persicaria minor: application in food model.*
- 17.30 - 17.45 **Dr. Rozaimi bin Abu Samah (Universiti Malaysia Pahang)**  
*Preparation and characterisation of adsorbent from landfill sludge*
- 17.45 - 18.00 **Assoc. Prof. Dr. Norazwina Zainol (Universiti Malaysia Pahang)**  
*Factorial analysis of mycelium growth in Pleurotus sp. cultivation by using agricultural wastes*

**TRACK B: Energy Innovation VI /Advanced Chemical Engineering IX  
Chairman: Dr. Vo Nguyen Dai Viet (Universiti Malaysia Pahang)**

- 14.00 - 14.15 **Dr. Hyung Won Lee (National Institute of Forest Science, South Korea)**  
*Catalytic co-conversion of kraft lignin and linear low-density polyethylene over mesoporous catalysts*

- 14.15 – 14.30 **Sruthi Guru (IIT Madras)**  
*Design of Lacunary Keggin hybrids with ferrocene for photocatalytic applications*
- 14.30 – 14.45 **Professor Young-Min Kim (Hallym University, South Korea)**  
*Co-feeding effect of waste plastic films on the catalytic pyrolysis of biomass over HZSM-5 and HY*
- 14.45 – 15.00 **Dr.Ta Yeong Wu (Monash University, Malaysia)**  
*Application of green solvent in biomass reuse and valorization*
- 15.00 – 15.15 **Nurliyana Masiran (Universiti Teknologi PETRONAS)**  
*Catalysis mechanism of Ni-Fe promoted  $\gamma$ -alumina in thermo-catalytic decomposition of methane to hydrogen: A density functional theory study*
- 15.15 - 15.30 **Zuhroni Ali Fikri (Korean Institute of Science and Technology)**  
*Selective production of terephthalic acid from biomass-derived furans over heteropolyacid catalysts*
- 15.30 - 15.45 **Ahmad Nafees (Universiti Malaysia Pahang)**  
*Approaches for utilization of natural gas*
- 15.45 - 16.00 **Asiah Nusaibah Masri (Universiti Teknologi PETRONAS)**  
*Efficient dicationic acidic ionic liquid catalyst for biodiesel production from edible, non-edible and waste oil feedstocks*
- 16.00 - 16.15 **Azianna Gusniah (UITM)**  
*Ultrasonic assisted in enzymatic transesterification of methyl ester with methyl acetate*
- 16.15 - 16.30 **Tariq Abbas (Universiti Teknologi Malaysia)**  
*Enhanced metal-support interaction in Ni/Co x O y /TiO 2 nanorods toward dynamic hydrogen production from phenol steam reforming*
- 16.30 - 16.45 **Muhamad Hadi Sulaiman (Universiti Malaysia Pahang)**  
*Molecular interaction of carboxylic and amine group with calcium and iron for solid scale dissolution*
- 16.45 - 17.00 **Dr Jong-Sang Youn (Inha University)**  
*Effect of carbon coating on Cu electrodes for hydrogen production by water splitting*
- 17.00 - 17.15 **Dr. Abdul Halim Abdul Razik (Universiti Malaysia Pahang)**  
*Modelling and optimization of biomass to bio-products supply chain*
- 17.15 - 17.30 **Nurhamizah Ibrahim (Universiti Malaysia Pahang)**  
*Green jatropha motor oil (g-jamo) synthesis using treated cockel shell waste (tcsw) catalyst*
- 17.30 - 17.45 **M.V. Sivaguru (Universiti Malaysia Pahang)**  
*Kinetic models of trimethylolpropane (tmp) and castor oil methyl ester transesterification for engine oil synthesis*

**TRACK C: Water & Environment Engineering IV**  
**Chairman: Dr Shalyda binti Md. Shaarani (UMP)**

- 14.00 - 14.15 **Dr. Asif Nawaz (Shaheed Benazir Bhutto University, Pakistan)**  
*Utilization of different polymers for the improvement of catalytic properties and recycling efficiency of bacterial maltase*
- 14.15 - 14.30 **Nurain binti Adam (UITM)**  
*Synthesis and characterization of zinc-aluminium layered double hydroxide-cinnamic acid*
- 14.30 - 14.45 **Professor Young-Kwon Park (University of Seoul)**  
*In-situ and ex-situ catalytic pyrolysis of lignin*
- 14.45 - 15.00 **Dr. Tan Jully (UCSI University, Malaysia)**  
*Life cycle optimization (LCO) for glove manufacturing*
- 15.00 - 15.15 **Thi Thuong Nguyen (Nguyen Tat Thanh University)**  
*A fixed-bed column study for removal of organic dyes from aqueous solution by pretreated durian peel waste*
- 15.15 - 15.30 **Professor Sugeng Triwahyono (Universiti Teknologi Malaysia)**  
*Zirconium-loaded mesostructured silica nanoparticles adsorbent for removal of hexavalent chromium from aqueous solution*
- 15.30 - 15.45 **Tiffany Yit Siew Ng (Universiti Teknologi Petronas)**  
*Ultrasonic irradiation treatment in reducing the hydrothermal heating duration for the synthesis of zeolite rho*
- 15.45 - 16.00 **Norliza Binti Dzakaria (Universiti Kebangsaan Malaysia)**  
*The reduction behaviour of zirconia doped to nickel at different temperature in carbon monoxide atmosphere*
- 16.00 - 16.15 **Dr. Fairous Salleh (Universiti Kebangsaan Malaysia)**  
*Studies on non isothermal reduction of cobalt doped tungsten oxide in carbon monoxide atmospheres*
- 16.15 - 16.30 **Iman Shafina binti Ramle (Universiti Malaysia Pahang)**  
*Modelling of leaching process of rare earth element Praseodymium (Pr)*
- 16.30 - 16.45 **Lee Zhan Sheng (Universiti Malaysia Pahang)**  
*Hydrogen-rich syngas production via steam reforming of palm oil mill effluent (POME) – a thermodynamics analysis*
- 16.45 - 17.00 **Dr. Sofiah Hamzah (Universiti Malaysia Terengganu)**  
*The study of extraction and modification of hydroxyapatite from fish scales as bio-adsorbent for ammonia removal in aquaculture wastewater*
- 17.00 - 17.15 **Oluwaseun ruth alara (Universiti Malaysia Pahang)**  
*Multi-response optimization of microwave-assisted extraction of phenolics and flavonoids from chromolaena odorata leaves using response surface methodology*

- 17.15 - 17.30 **Nor Insyirah binti Hairul Salleh (Universiti Malaysia Pahang)**  
*Palm oil leaves extraction as corrosion inhibitor for metal and alloy in seawater*
- 17.30 - 17.45 **Dr. Asmida Ideris (Universiti Malaysia Pahang)**  
*Performance of Ni-La/SiO<sub>2</sub> Catalyst Produced From In-Situ Glycine-Nitrate Process*
- 17.45 - 18.00 **Marwah Mohammed (Universiti Malaysia Pahang)**  
*Polymer-clay nanocomposites with improved thermal and physical properties by free radical polymerization*

**Track D : Advanced Chemical Engineering X**

**Chairman: Dr. Herma Dina Setiabudi (Universiti Malaysia Pahang)**

- 14.00 - 14.15 **Dr. Tanveer Ahmed Khan (Seoul National University)**  
*Synthesis and characterization of carbon microspheres from rubber wood by hydrothermal carbonization*
- 14.15 - 14.30 **Dr. Suwimol Wongsakulphasatch (King Mongkut's University of Technology)**  
*Hybrid catalytic sorbent Ni-CaO/Ca<sub>12</sub>Al<sub>14</sub>O<sub>33</sub> for hydrogen production from process intensified sorption-enhanced steam*
- 14.30 - 14.45 **Oluwaseun ruth alara (Universiti Malaysia Pahang)**  
*Two-level factorial design for the extraction of phenolics and flavonoids from chromolaena odorata leaves*
- 14.45 - 15.00 **Dr. Pooria Moozarm Nia (Malaysia Japan International Institute of Technology)**  
*Supported phosphotungstic acid on carbon nanofibres: A new catalyst for ecofriendly Friedel-Crafts alkylation under solvent-free conditions*
- 15.00 - 15.15 **Norilyani Izzati Hasanuddin (UITM)**  
*A new insight of graphite oxide in agriculture and its controlled release studies*
- 15.15 - 15.30 **Nurul Jannah Sulaiman (Universiti Teknologi Malaysia)**  
*Adsorption studies on cellulase and xylanase immobilization in hierarchically mesocellular mesoporous magnetic silica*
- 15.30 - 15.45 **Maratun Najiha Abu Tahari (Universiti Kebangsaan Malaysia)**  
*Influence of hydrogen and various CO concentration on lower reduction temperature behavior of iron oxide.*
- 15.45 - 16.00 **A. Rajabi Abhari (Seoul National University)**  
*Sterically stabilized acrylate co-binder for calcium carbonate and clay coating color- Rheology of disperse system and mechanical properties of coating composites*

- 16.00 - 16.15 **Suci Madha Nia (Institut Teknologi Sepuluh Nopember Surabaya)**  
*Flow pattern recognition and characterization inside a side entering cylinder-cone stirred tank using computational fluid dynamics methods and visualization technique*
- 16.15 - 16.30 **Nur Hashimah Alias (Universiti Teknologi Malaysia)**  
*Effective capture and in-situ photocatalytic degradation of methylene blue using visible-light responsive polyacrylonitrile nanofibers embedded graphitic carbon nitride fabricated via electrospinning technique*
- 16.30 - 16.45 **Yosuke Shibata (University of Hyogo)**  
*Optimal modification process of interfacial tension by pulse microwave irradiation*
- 16.45 - 17.00 **Dr. Yurii Bauman (Boreskov Institute of Catalysis)**  
*Synthesis of segmented carbon nanofibers via chemical cvd of chlorinated hydrocarbons over Ni-Pd system*
- 17.00 - 17.15 **Dr. Bawadi Abdullah (Universiti Teknologi Petronas)**  
*U-porphyrin impregnated Zr-MCM-48 hybrid photocatalyst for CO<sub>2</sub> reduction to methanol*
- 17.15 - 17.30 **Dr. S. Nurdin (Universiti Malaysia Pahang)**  
*Eco-conversion of castor oil to trimethylolpropane ester using non-and impregnated chicken egg shells (n-ices)*
- 17.30 - 17.45 **Dr Swe Jyan Teh (Universiti Malaya)**  
*Enhanced Photo-Conversion Efficiency of Reduced Graphene Oxide/Zinc Oxide Photoanode by Controlling the Electrochemical Reduction Technique*
- 17.45 - 18.00 **Dr. Herma Dina Binti Setiabudi (Universiti Malaysia Pahang)**  
*Methane production over Ni supported F-SBA- 15: different amount of Ni loadings*
- 18.00 - 18.15 **Rabiatul Adawiah Mahmud (Universiti Malaysia Pahang)**  
*Full Factorial Design Analysis Approach for Preparation of poly (HEMA-co-EGDMA-co- VBC) Microsphere Particles*

**Track E : Advanced Chemical Engineering XI**  
**Chairman: Prof Hayder Abdul Bari (Universiti Malaysia Pahang)**

- 14.00 - 14.15 **Nor Adilla Rashidi (Universiti Teknologi PETRONAS)**  
*Volumetric carbon dioxide adsorption onto the palm kernel shell-based activated carbon: evaluation of equilibrium, kinetic, and mechanism properties*
- 14.15 - 14.30 **Dr. Sunil Pathak (Universiti Malaysia Pahang)**  
*Investigations on Copper Nano-Particles Synthesis by Pulsed Electrochemical Dissolution (PECD) Process*
- 14.30 - 14.45 **Nurfadilah Rasol (Universiti Teknologi Malaysia)**  
*Effect of neutralisation on the mechanical properties of nanostructured films based on poly(n-butyl acrylate)*

- 14.45 – 15.00 **Siti Amirah Abdul Ghani (Universiti Malaysia Pahang)**  
*A review on the potential waste materials utilized in the thermal energy storage system as phase change material.*
- 15.00 – 15.15 **John Olabode Akindoyo (Universiti Malaysia Pahang)**  
*Characterization and elemental quantification of natural hydroxyapatite produced from cow bone*
- 15.15 - 15.30 **Yuki Wada (University of Hyogo)**  
*Bubble size profile produced by combination of microwave and ultrasound treatments*
- 15.30 - 15.45 **Mariam Altaf Tarar (The University of Nottingham Malaysia Campus)**  
*Green and lean manufacturing principles integration*
- 15.45 - 16.00 **A A Tahrir (UNIKL MICET)**  
*Preparation of amine functionalised silica/OPBI nanocomposite membrane for high temperature polymer electrolyte membrane (PEMFC)*
- 16.00 - 16.15 **Anuma Saroja (National Institute of Technology, Karnataka (NITK) India)**  
*Cobalt Schiff base immobilized on graphene nanosheet with N,O linkage for cross-coupling reaction*
- 16.15 - 16.30 **Professor Hayder Abdulbari (Universiti Malaysia Pahang)**  
*Organic additives for the enhancement of laminar flow in brain-vessels-like microchannel assembly*
- 16.30 - 16.45 **Norsyazwani Yahya (Universiti Teknologi Malaysia)**  
*Removal of Reactive Black 5 (RB5) using perovskite LaFeO<sub>3</sub> via an adsorption-photocatalysis synergy*
- 16.45 - 17.00 **Mohsin Pasha (University of Engineering and Technology Lahore Pakistan)**  
*A prototype tool for the inherent safety level assessment of the heat exchanger network*
- 17.00 - 17.15 **Zinab H. Bakr (Universiti Malaysia Pahang)**  
*Characteristics of composite nanofibers in the SnO<sub>2</sub>-ZnO and SnO<sub>2</sub>-TiO<sub>2</sub> systems as a photoanodes in dye-sensitized solar cells*
- 17.15 - 17.30 **Dr. Mohd Bijarimi Mat Piah (Universiti Malaysia Pahang)**  
*Poly(lactic acid)(PLA)/acrylonitrile butadiene styrene(ABS)nanocomposites with hybrid graphene/ montmorillonite (MMT)*
- 17.30 - 17.45 **Assoc. Prof. Dr. Ramesh Khantasamy (Universiti Malaysia Pahang)**  
*Thermophysical and spectroscopic approach on molecular interactions of methyl-tert-butyl ether with ethanol at temperatures of 303.15 K, 308.15 K, 313.15 K, and 318.15 K*
- 17.45 - 18.00 **A K Rathore (HBT University)**  
*Recovery of caproic acid with reactive extraction using amines in nontoxic diluents*

18.00 - 18.15

**Norazlianie Sazali (Universiti Teknologi Malaysia)**

*Effect of intermediate layer on gas separation performance of disk supported carbon membrane*

18.15 - 18.30

**Siti Kholijah Abdul Mudalip (Universiti Malaysia Pahang)**

*Prediction of Mefenamic Acid Solubility and Molecular Interaction Energies in Different Classes of Organic Solvents and Water*

***\*Note: Program details are subject to change***