

# Programme Schedule

## Tentative agenda on 8 August 2019

Time	Event
<b>08:00 - 09:00</b>	Registration & Poster Installation
<b>09:00 - 09:30</b>	Opening Ceremony
<b>09:30 - 10:00</b>	Plenary Talk from Mr. Albert Law, Malaysia Division Manager, Chih He Digital Co. Ltd., on "Malaysia Biomass Industry"
<b>10:00 - 10:15</b>	Tea Break
<b>10:15 - 10:45</b>	keynote Talk 1 from Prof. John Chi-Wei Lan, Yuan Ze University, Taiwan, on "Conduction of electro-fermentation for enhancement of echinenone production from marine microorganism"
<b>10:45 - 12:30</b>	Parallel Sessions I
<b>12:30 - 13:30</b>	Lunch & Poster Session
<b>13:30 - 14:00</b>	Keynote Talk 2 from Asso. Prof. Ao Xia, Chongqing University (CQU), China, on "Process intensification of fermentative hydrogen production from algal biomass"
<b>14:00 - 15:45</b>	Parallel Sessions II
<b>15:45 - 16:15</b>	Tea Break & Poster Session
<b>16:15 - 18:00</b>	Parallel Sessions III
<b>18:00 - 18:30</b>	Award Presentation & Closing Ceremony
<b>9 Aug 2019</b>	Social event (optional participation)

## POCER 2019 Tentative Presentation Sessions

### 8 August 2019, 10:45 – 12:30: Parallel Sessions 1A & 1B

Session 1A: Chemical and Biological Processing 1		
Paper #	Authors	Title
<b>14</b>	Afiqah Yeop, Sook Fun Pang, Mashitah Mohd Yusoff, Sureena Abdullah and Jolius Gimibun	Elucidation of Gallic Acid Degradation Pathway from Labisia pumila via Mass Spectroscopy Technique

<b>15</b>	Vi Vien Chia, Sook Fun Pang, Sureena Abdullah and Jolius Gimibun	Microwave-Assisted Extraction of Andrographolide, 14-Deoxy-11,12-didehydroandrographolide and Neoandrographolide from <i>Andrographis Paniculata</i>
<b>29</b>	Asalil Mustain, Agung A. Wibowo, Ratna D. Kusumaningtyas, M. Megawati and Dhoni Hartanto	Isobaric Vapor-Liquid Equilibrium for Binary System of Acetone + tert-Butanol at 101.325 kPa
<b>37</b>	Balasubramaniem Ashokkumar, Aravind Manikka Kubendran, Jincymole Kappen, Perumal Varalakshmi and Abraham John	Catechol 1, 2-dioxygenase from metabolically versatile <i>Paracoccus</i> sp. MKU 1 for the biosynthesis of cis, cis-muconic acid
<b>47</b>	Abdul Azim Azmi, Pau Loke Show and Revathy Sankaran	Protein extraction from microalgae using Three Phase Partitioning system
<b>48</b>	Yee Ho Chai, Suzana Yusup and Muhammad Syafiq Hazwan Ruslan	A short review on recent extraction technologies progressions and ways forward for bioactive compounds recovery from <i>Carica papaya</i> linn
<b>52</b>	Pei San Kong, M. Fariswan M. Jaafar, Farah Hanis Razali, Ananthan Krishnan, Zaidah Abu Bakar, Ahmadilfitri Md Noor and Ahmad Jaril Asis	Interesterification of Triglycerides Blends: Alternative Approach to Trans Fats

### Session 1B: Materials

<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
<b>20</b>	Noel Dawang	Natural product ( <i>Abutilon hirtum</i> extracts) in treating environment related infections (Salmonellosis and Typhoid fever)
<b>21</b>	Jing-Hua Huang and John Chi-Wei Lan	Physical and Biochemical Characteristics of Cellulose-based Chelate Adsorbent for Protein Recovery
<b>25</b>	Ricardo Parra-Cruz, Phei-Li Lau, Christof Jaeger and Anca Pordea	In Silico Protein Design: a case study in <i>Thermovibro Ammonificans</i> carbonic anhydrase used for hydrogen delivery
<b>31</b>	Nur'Aini Raman Yusuf, Ruzaimah Nik Mohammad Kamil and Suzana Yusup	Effect of Bio-coating Agent On Magnetic Properties of Iron Oxide Nanoparticles
<b>32</b>	Kuan Ching Lee, G.T. Pan, Thomas C.-K. Yang, Siewhui Chong and J.C. Juan	Electrodeposition Two-dimensional Manganese Oxide Electrodes for Rechargeable Zinc-Air battery
<b>34</b>	Hsien-Lung Chiu, Ying-Chih Liao, Guan-Ting Pan and Siewhui Chong	Improvement of Dispensing Gap using Nanocellulose Fibrils for Ultrafine-Line of Supercapacitor
<b>44</b>	Yew Guo Yong, Khoo Kuan Shiong, Chew Kit Wayne, Law Chung Lim and Show Pau Loke	The stability enhancement of crosslinked carboxylated acrylonitrile butadiene rubber using nanosize surfactant

## 8 August 2019, 14:00 – 15:45: Parallel Sessions 2A & 2B

Session 2A: Biomass and natural resources utilization		
Paper #	Authors	Title
2	Zafri Mokhta, Mei Yin Ong, Bello Salman, Saifuddin Nomanbhay, Siti Fatihah Salleh, Kit Wayne Chew and Pau Loke Show	Modeling of Microwave-Assisted Pyrolysis using COMSOL Multiphysics
16	Yi Ling Yeong, Sook Fun Pang, Mashitah Mohd Yusoff and Jolius Gim bun	Effect of auxiliary energy on anthraquinones and flavonoids extraction from <i>Cassia alata</i>
17	Jessicah Chup Alexander and Chundusu Elizabeth Sam	A Comparative Study on The Nutritional Value and Mineral Content of Infected and Non-Infected Cocoyam ( <i>Colocasia Esculentum</i> ) by Root Rot Blight Complex
28	Vasanthi Sethu	Biosorption of Nickel, Copper and Zinc from Aqueous solutions using <i>Azadirachta indica</i> (neem) leaf powder
41	Shir Reen Chia, Kit Wayne Chew and Pau Loke Show	Ultrasonic Cell Disruption of Microalgae for Protein Extraction
51	Yen Yee Chong, Suchithra Thangalazhy Gopakumar, Hoon Kiat Ng, Suyin Gan and Lai Yee Lee	Kinetic Study on Catalytic Pyrolysis of Palm Empty Fruit Bunch Fibre with Oxides

Session 2B: Energy, Environment and Sustainability 1		
Paper #	Authors	Title
6	Liwayway Acero	Some Nesting Determinants of Olive Ridley sea turtle ( <i>Lepidochelys olivacea</i> ) in San Narciso Zambales Philippines: A Preliminary Study
10	Meenakshi Reddy R, Deepika R, Hemachandra Reddy Konireddy and Naga Phaneendra Adam	Thermal Energy Storage System Performance by the use of PCM-Variable heat source
11	Saleh Shadman, Christina Chin, Novita Sakundarini, Eng Hwa Yap and Sherman Yong	Identifying the dimensional indicators of energy security for Malaysia using system dynamics
19	Danjuma Gwamzhi and Chundusu Elizabeth Sam	Parasitic Contamination of Some Fruits And Vegetables Sold in Bukuru Market of Jos South Local Government Area Of Plateau State, Nigeria.
53	Chien Lye Chew and Yosri Mohd Siran	An alternative pretreatment medium in palm oil milling processes

<b>55</b>	Dexter Hoi Long Leung, Yin Sze Lim, Guan Ting Pan and Siew Hui Chong	Usage of Enterobacteriaceae in dual-chambered microbial fuel cell
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### 8 August 2019, 16:15 – 18:00 Parallel Sessions 3A & 3B

#### Session 3A: Chemical and Biological Processing 2

<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
<b>13</b>	Kuan Shiong Khoo, Kit Wayne Chew and Pau Loke Show	Extraction of Astaxanthin from Haematococcus Pluvialis via Liquid Biphasic Flotation
<b>23</b>	Yu-Yu Lin and John Chi-Wei Lan	Optimization of Cytochrome c Recovery using Ionic Liquid-based Aqueous Two Phases System
<b>27</b>	Yee Peng Lim, Sook Fun Pang, Mashitah Mohd Yusoff, Siti Kholijah Abdul Mudalip and Jolius Gim bun	Microencapsulation by spray drying enhanced powder recovery and mangiferin stability of <i>P. macrocarpa</i> 's extracts
<b>43</b>	Kit Wayne Chew, Shir Reen Chia and Pau Loke Show	Isolation of Blue Pigments from Cyanobacteria using Flotation Integrated Biphasic Separation
<b>36</b>	Perumal Varalakshmi, Selvaraj Pushpalatha, Ramalingam Sangeetha, Sevugarajan Ariraman, Elamathi Vimali and Balasubramaniem Ashokkumar	Improved production of carotenoids and lipid from thermotolerant microalga: Influence of high temperature, nutrient starvation and nanoparticle in <i>Coelastrella</i> sp. M60
<b>54</b>	Mohammad Asad Tariq and Senthil Kumar Arumugasamy	Prediction of Polycaprolactone Molecular Weight Synthesized using Enzymatic Polymerization: Artificial Neural Networks Modeling

#### Session 3B:Energy, Environment and Sustainability 2

<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
<b>3</b>	Deepika R, Meenakshi Reddy R, Hemachandra Reddy K and Naga Phaneendra Adam	Fabrication & Study of PCM based Waste heat recovery system
<b>7</b>	Liwayway Acero	Solid Waste Management of Hotels and Lodging Houses in Sabang Wharf: Gateway to Puerto Princesa City Underground River-Philippines
<b>12</b>	Zi Xiang Keng, Siew Hui Chong, Christina Vimala Supramaniam and Ajit Singh	Characterization of Feedstock for Optimization of Carbon-to-Nitrogen Ratio and Moisture Content for Industrial Biowaste Composting
<b>18</b>	Chundusu Elizabeth Sam and Daniel Victor Nenman	The Effects of Four Local Additives on Some Physico-Chemical Properties of Palm Oil Obtained from Jos Metropolis, Plateau State, Nigeria

<b>45</b>	Cedric Lemuel Lee, Senthil Kumar Arumugasamy, Matthew Ashfold and Mohd Talib Latif	Use of Artificial Neural Network to Predict Variation in Pollutant Concentrations associated to Climate Change Sensitivities
<b>56</b>	Apurav Krishna Koyande and Pau Loke Show	Utilization of sugaring-out liquid biphasic electric system for protein extraction from microalgae

### POCER 2019 Poster presentations

<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
<b>1</b>	Guan-Ting Pan, Siwehui Chong, Thomas C.-K. Yang and Chao-Ming Huang	Electrodeposited Porous Nickle Cobalt Oxide/SS Composite Electrodes for Rechargeable Zinc-Air Batteries
<b>24</b>	Cheng-Hsuan Hsu and Yu-Shen Cheng	Preparation of natural adhesive bonded particleboard from insect rearing residue and rice husk
<b>26</b>	Hong-Kai Huang and Yu Shen Cheng	Using insect rearing residue and citric acid for particleboard manufacturing
<b>46</b>	Anurita Selvarajoo and Ianatul Khoiroh	Evaluation of CO <sub>2</sub> reactivity for biochar derived from different biomass
<b>49</b>	Revathy Sankaran, Pau-Loke Show, Chien-Wei Ooi, Tau Chuan Ling, Shu-Jen Chen, Siao-Ying Chen and Yu-Kaung Chang	Eggshell Waste as Low-Cost Bio-adsorbent for Removal of Heavy Metals and Soluble Microbial Products from Aqueous Solution
<b>50</b>	Yi Jing Chan, Zhen Kang Liew and Tommy Hoong Wy Lee	Anaerobic Co-Digestion of Palm Oil Mill Effluent (POME) with Empty Fruit Bunch (EFB) at Mesophilic and Thermophilic Conditions

POCER 2019 Abstracts available at

<https://www.dropbox.com/sh/hbi908f56ha0g5y/AADrJIbe9OMIQkwRLQ1SPgApa?dl=0>

