Venue: Arcadia I, Armada Hotel (ROOM 1)

Time: 2.00 pm – 4.00 pm Chairperson: Dr Abdel Baki, Qatar

2.00 - 2.15pm	SPE-1	Total Phenolic Content And Antioxidant Activity Of Pandanus Amaryllifolius By Soaking And Microwave-Assisted Extraction Nurul Asyikin Md Zaki, Syafiza Abd Hashib, Ummi Kalthum Ibrahim, and Putri Ani Narisa Ahmad Bakhtiar
2.15 - 2.30pm	SPE-2	Mass Transfer Evaluation Of Substrate, Intermediate Products And Inhibitors In Membrane Bioreactor On Biogas Production M Hidayat, I G Kurniawan, M A Prakosa, S Dökümcü, R Millati, and M N Cahyanto
2.30 - 2.45pm	SPE-3	Development Of Recovery Technology Of Valuable Metals From Sea Water  J. San and K. Onoe
2.45 - 3.00pm	SPE-4	Characterization of Expanded Perlite from Lamba, Albay, Bicol as an Adsorbent Medium and the Design of a Fixed-Bed Column for the Adsorption of Cd (II) and Pb (II) from Synthetic Rainwater  E C Datul, J M A Surot, J M B Toledo, and L D B Pestaño
3.00 - 3.15pm	SPE-5	Extraction Of Silica From Rice Straw Using Alkaline Hydrolysis Pretreatment Ayu Haslija Abu Bakar and Chong Jia Ni Carey
3.15 - 3.30pm	SPE-11	Isobaric Vapor-Liquid Equilibrium Of Methanol + Glycerol Binary Mixture At 31.3 kPa M A Batutah, K Kuswandi, and G Wibawa
3.30 - 3.45pm	SPE-13	Nitrate Reduction Using Synthesized G-nZVI and G-nZVI-Cu Prepared from Optimized Extracted Polyphenols from Suganda Leaves  Vanessa Denise C. Aguilar, Jerome D.R. Fundano, Jeswino C. Legaspi, Darwin C. Mojica, Janselle Q. Tullao, Alister Mae A. Zafra, and Engr. Erison C. Roque
3.45 - 4.00pm	AOI-26	Synthesis Of Tio2/Go Nanocomposite For Methylene Blue Degradation L. D. Kasmiarno, D. Floresyona, R. Raissa, and N. S. Pambudi

Venue: Arcadia II, Armada Hotel (ROOM 2)

Time: 2.00 pm – 4.00 pm Chairperson: Prof Soudeteh, Iran

2.00 - 2.15pm	CRE-1	Recovery of Gold from Pregnant Thiourea Leaching Solution by Synergistic Extraction  Mohd Jumain Jalil, Haris Halimi Mohd Azam Zaki, Intan Suhada Azmi, Ariff Aminuddin Ahmad Zulkifli, and Muhammad Hazim Abu Bakar
2.15 - 2.30pm	CRE-2	Overcome The Equilibrium Limitation In Para-Xylene Production By Using Reactive Distillation Method Quy Phu Nguyen, Kim Trung Nguyen, Tuan Anh Nguyen, and Fuchino Tetsuo
2.30 - 2.45pm	CRE-3	Simulation and Parametric Study of the Innovative Process to Produce High Purity Isopropyl Acetate with Ethylene Oxide Hydration as an Auxiliary Reaction  I G P Wiratama and V Novianty
2.45 - 3.00pm	CRE-4	Kinetic study of epoxidation of Tung oil (Reutealis trisperma (Blanco) Airy Shaw) by peroxyacetic acid E Budiyati, Budhijanto, A Budiman, and Rochmadi
3.00 - 3.15pm	CRE-5	Bio-Hydrocarbon Production From Sorbitol Using Fei2 To Accelerate HI Regeneration Reaction Rina Krisnayana, Subagjo, CB Rasrendra, and Tatang Hernas Soerawidjaja
3.15 - 3.30pm	CRE-9	Microwave-assisted Acid Pretreatment of Sago Wastewater for Fermentable Sugar Production  Noor Illi Mohamad Puad, Ummul Madihah Mohd Rashidi, Azlin Suhaida Azmi, and Mohd Firdaus Abd Wahab
3.30 - 3.45pm	CRE-32	Validation Of Mathematical Model Of Hydrotropic-Reactive Extraction Of Lignin I Hartati, W B Sediawan, H Sulistyo, M M Azis, and M Fahrurrozi
3.45 - 4.00pm	CRE-11	Mechanism And Kinetic Model For Glycerolysis Of Shellac  D T Hartanto, Rochmadi, and Budhijanto

Date: 30 October 2019

Venue: Arcadia III, Armada Hotel (ROOM 3)

Time: 2.00 pm - 4.00 pmChairperson: Dr Syamsul, USM

	1	<u> </u>
2.00 - 2.15pm	PCM-1	Offset-free control of a pH system using Multiple Model Predictive Control  A W Hermansson and S Syafiie
2.15 - 2.30pm	PCM-2	Designing Real Time Model Mobile Monitoring System For Model Predictive Control (MPC) In Nonlinear CSTR Control Danny Hartanto Djarum and Zainal Ahmad
2.30 - 2.45pm	PCM-3	Modeling And Simulation Of The Diameter Effects Of The Hollow Fiber Membrane On CO <sub>2</sub> Absorption From Natural Gas Nayef Ghasem
2.45 - 3.00pm	PCM-4	A Design Method For The Integration Of Heat And Control In A Process Of Toluene Hydrodealkylation  Trung Kim Nguyen, Nguyen Khoi Phuc Nguyen, Thu Dinh Nguyen, Tuan-Anh Nguyen, and Fuchino Tetsuo
3.00 - 3.15pm	PCM-11	Filters Design For Dynamic Estimation In Chemical Process Control Siti Fatmawati and Marthen Luther Doko
3.15 - 3.30pm	PCM-13	An MINLP Multi-Period Multi-Objective Optimization of Advanced Power Plant through Gasification of Municipal Solid Waste  A Syauqi and W W Purwanto
3.30 - 3.45pm	PCM-14	Optimization and Analyzing of Subcritical Organic Rankine Cycle Using R1234ze(E) for Low and Medium Temperature Heat Source O Rowshanaie, M Z M Tohir, F Mustapha, M E Ya'acob, and H Rowshanaie
3.45 - 4.00pm	PCM-34	Comparison Study of Different Interval Numbers on Low- Density Polyethylene Process Optimization A Azmi, S A Sata, F S Rohman, and N Aziz

Venue: Arista, Armada Hotel (ROOM 4)

Time: 2.00 pm – 4.00 pm Chairperson: Dr Che Rosmani, UM

	1	
2.00 - 2.15pm	SHE-1	Incineration Of Ammonia Wastewater And The Effect To Environment
		A. A Rahim B Norman, B. Noorhidayah Bt Hussein, and C. Fadzrul Izwan B M Ali
2.15 - 2.30pm	SHE-3	Treatment And Recycling Of Wastewater From Food Industry Using Fixed-Bed Adsorption on the Tertiary Stage Ayu Haslija Abu Bakar and Priya Thaarani
		Simulation of Natural Gas Dispersion and Explosion in Vented Enclosure using 3D CFD FLACS Software
2.30 - 2.45pm	SHE-35	Juwari, Renanto Handogo, Teguh Cahyono, Mochamad Safarudin, Rendra Panca Anugraha, Fadhilatul Aulia, Nuvies Dwi Kurniaty, Muhamad Reza Habibi, and Muhammad Nuur Kharisma
2.45 - 3.00pm	SHE-6	Experimental Study Of Batch Electrocoagulation Treatment Of Peat Water In Sarawak With Aluminium Electrodes  N Abdul Rahman, A Albania Linus, U J Gilan, E E Jihed, N K M
		F Kumar, A Yassin, and A Philip
3.00 - 3.15pm	SHE-7	The Permit To Work In Relation With Occupational Accident At Petrochemical Plant
3.00 3.13piii		Nizar Jusoh, Mohamad Wijayanuddin Ali, Tuan Amran Tuan Abdullah, and Alias Husain
3.15 - 3.30pm	SHE-25	The Effect of Flow Rate and NaCl Concentration on the Corrosion Behavior of Carbon Steel in NaCl Solutions Containing H <sub>2</sub> S
		Indah Dwi Rachmawati, Isdiriayani Nurdin, Pramujo Widiatmoko, Hary Devianto, Festi Irmayanti, and Samuel Saptohadi
3.30 - 3.45pm	SHE-9	Immobilization Of Cadmium (Cd2+) In Contaminated Soil Using Biochar Derived From Calophyllum Inophyllum (Bitaog) Seed Husks
		J L Oblepias, T N Pana, M Villanueva, and M N Dimaano
3.45 - 4.00pm	SHE-40	Adsorption of Ammonium Ions Using Activated Carbon Derived from Artocarpus odoratissimus Skin
		S M Anisuzzaman, A Y Zahrim, M Rajin, S Saalah, N M Ismail, R Duraim, and D Krishnaiah

Venue: Atlanta East, Armada Hotel (ROOM 5)

Time: 2.00 pm - 4.00 pm

Chairperson: Dr Agus, Curtin University

2.00 - 2.15pm	AOI-2	Production of Tannin-based Natural Dye from Mangrove (Rhizophora mangle) Tree Bark Waste from Wood Chips Industry: A Feasibility Study  Aswati Mindaryani, E Rahayuningsih, D T Adriyanti, L D Parthasiwi, M S Widhiasih, and F Larasati
2.15 - 2.30pm	AOI-4	Synthesis And Characterization Of Silver Nanoparticles As A Potential Sensor For Volatile Organosulfides For Visual Detection Of Postharvest Storage In Garlic R K C Motol, C A Espineli, C M V Tapit, and C E Tiangco
2.30 - 2.45pm	AOI-7	Oil Spill Removal Using Kenaf Core Fibers As Biosorbent Material  P Siwayanan, D G Ramachandran, R Jamaluddin, and S Ahmad
2.45 - 3.00pm	AOI-8	Effect Of Alcohol/Water On Glycine Crystal Transition  H. Kokubu, Y. Shimada, and K. Onoe
3.00 - 3.15pm	AOI-9	Leaching of REY From Non-Magnetic Coal Fly Ash With Acetic Acid  H Manurung, W Rosita, F Anggara, H B T M Petrus, and I M Bendiyasa
3.15 - 3.30pm	AOI-10	Electrochemical Properties Of Ascorbic Acid And Folic Acid Under Acidic Solution  Noer Abyor Handayani, Elsa Anisa Krisanti, Yunita Sadeli, Sutrasno Kartohardjono, and Kamarza Mulia
3.30 - 3.45pm	AOI-11	(Calamansi) Citrofortunella Microcarpa Rind Extract As Plant Derived Green Corrosion Inhibitor For Mild Steel In 1.0M HCl Gian Carlo E. Arguelles, Mark Ceazar D. Torres, Brian James U. Wu, Jerry G. Olay, and Renato C. Ong
3.45 - 4.00pm	AOI-12	Enhanced Production Of B-Carotene Suspensions Using Supercritical CO <sub>2</sub> Via Naturally Occurring Z-Isomerization-Accelerating Catalyst Yelin Zhang, Masaki Honda, Wahyudiono, Hideki Kanda, and Motonobu Goto



Date: 30 October 2019

Venue: Atlanta West, Armada Hotel (ROOM 6)

Time: 2.30 pm - 4.00 pm

Chairperson: Dr Umi Fazara, UNIMAP

2.30 - 2.45pm	BIO-1	Comparative Study Between Avian Cell And Mammalian Cell In Production Of Influenza Vaccine Syariah Compliance  F N Aliya Mohamad Ros, Norliza Abd Rahman, Jarinah Mohd Ali, Nurina Anuar, Siti Rozaimah Bt. Sheikh Abdullah, and Amir Fazlim Bin Jusoh @ Yusoff
2.45 - 3.00pm	BIO-2	The Numerical Estimation of Mass Transfer Coefficient of Oxygen in the Large-Scale Suspension Culture of iPS Cells R Isobe, Y Kanemaru, A Sekimoto, Y Okano, and M Kino-Oka
3.00 - 3.15pm	BIO-3	The Effect Of Uric Acid In The Detection Of Calcium Stones In Urine Through Turbidimetry Method  P A Bacani, J A Maglaqui, A A Tadeo, and E Quinto
3.15 - 3.30pm	BIO-4	A Preliminary Study of Extraction and Purification Processes of Astaxanthin from Haematococcus pluvialis as a Natural Antioxidant  PR Dewati, Rochmadi, A Rohman, and A Budiman
3.30 - 3.45pm	BIO-7	Biopolymeric Encapsulation Of Probiotics For Improved Release Properties In The Gastrointestinal Digestion System NA Mohammad, DNA Zaidel, I I Muhamad, MA Hamid, H Yaakob, and YMM Jusoh
3.45 - 4.00pm	BIO-8	Characterization Of Chitosan From Extracted Fungal Biomass For Piezoelectric Application  F. B. Ahmad, M. H. Maziati Akmal, A. Amran, and M. H. Hasni

Venue: Arcadia I, Armada Hotel (ROOM 1)

Time: 4.15 pm – 6.30 pm Chairperson: Dr Aileen, Philippines

	,	
4.15 - 4.30pm	SPE-16	Estimating Species Concentration In CO <sub>2</sub> -Loaded Monoethanolamine Using Raman Spectroscopy
		Ahmad Syukri Na'im Bin Mohd Hanafiah and Abdulhalim Shah Maulud
4.30 - 4.45pm	SPE-17	Effect Of Surface-Etched Modification On Halloysite Nanotubes (HNTS) For Polysulfone Mixed Matrix Membrane In CO2/CH4 Separation  J Jafa, S. M. Anissuzaman, C K Chiam, N Bolong, A R Razali, A F Ismail, and N M Ismail
4.45 - 5.00pm	SPE-15	Capacitive Deionization Utilizing Activated Biochar – Manganese Dioxide (AB - MD) Nanocomposites For Desalination Applications
		J Adorna Jr, M G Borines, and R-A Doong
5.00 - 5.15pm	SPE-19	Microwave Assisted Extraction Of Lipid From Nannochloropsis Gaditana Microalgae Using [EMIM]Cl S Rezaei Motlagh, R Harun, D R A Biak, and S A Hussain
		An Overview: Analysis Of Ultrasonic-Assisted Extraction's
5 15 5 20	SPE-20	Parameters And Its Process
5.15 - 5.30pm		Ahmad Syahir, Sarina Sulaiman, Maizirwan Mel, Maizatulnisa Othman, and Siti Zubaidah Sulaiman
5.30 - 5.45pm	SPE-21	Gold Leaching from Printed Circuit Boards (PCBs) as one of the Urban Mine Resources using Thiosulphate: Optimization using Response Surface Methodology (RSM)  H B T M Petrus, A E Putra, H S A Gustiana, A Prasetya, I M Bendiyasa, and W Astuti
5.45 - 6.00pm	SPE-22	Study Of Progressive Freeze Concentration And Eutectic Freeze Crystallization Technique For Salt Recovery  WNA Mazli, S Samsuri, and N A Amran
6.00 - 6.15pm	SPE-26	Effect Of Stirring Rate And Freezing Time On The Percentage Of Recovery Of Residual Oil From Palm Oil Mill Effluent Via a Stirred Freeze Crystallizer
		M. A. Mohamed Anuar, N. A. Amran, and M. S. H. Ruslan
6.15 - 6.30pm	SPE-25	Comparative Study Of Total Phenolic Content And Total Flavonoid Content Extraction From Guava Juices By Progressive Freeze Concentration And Evaporation
		M. A. Ahmad, N. S. M. Ghazali, S. Samsuri, and M. S. H. Ruslan

Date: 30 October 2019

Venue: Arcadia II, Armada Hotel (ROOM 2)

Time: 4.15 pm - 6.30 pmChairperson: Dr Mahar, UM

4.15 - 4.30pm	CRE-29	Effect Of Urea Loading On The Anodic Synthesis Of Titania Nanotube Arrays Photoanode To Enhance Photoelectrochemical Performance Tiur Elysabeth, Kamarza Mulia, and Slamet
4.30 - 4.45pm	PEP-4	Sequential Optimization Of a Water-Based Polygeneration System In Ethylene Glycol Production Triana Prihatin, Shuhaimi Mahadzir, and M. Ibrahim A. Mutalib
4.45 - 5.00pm	PEP-16	Impact Of Biomass Upgrading Via Hydrothermal Treatment On Slagging And Fouling During Cofiring With Coal Mi Yan, Dicka Ar Rahim, Herri Susanto, Rahmad Dennie Agustin Pohan, and Dwi Hantoko
5.00 - 5.15pm	PEP-19	Sequential Thermal and Power Integration for Locally Integrated Energy Sector  P Y Lee, P Y Liew, and T G Walmsley
5.15 - 5.30pm	PEP-20	Effect of DMPA Content on Colloidal Stability of Jatropha Oilbased Waterborne Polyurethane Dispersion  N S Nurdin, S Saalah, A T Lim, A Y Francis, L Abdullah, and S SaifulAzry
5.30 - 5.45pm	PEP-21	Study Of Glycerolysis Of Lactic Acid Suprihastuti S Rahayu, D M Putra, and A Hasna
5.45 - 6.00pm	PEP-23	Black Liquor Droplet Swelling Model During Pyrolysis  J Wintoko, S Purwono, M Fahrurrozi, and B Soehendro
6.00 - 6.15pm	PEP-29	Biogas Production From Cassava Waste: Effects Of Temperature And Concentration P Kohmuean, N Boonrod, and A Wongkoblap
6.15 - 6.30pm	PEP-17	Fabrication of ZnO-SiO <sub>2</sub> Nanocomposite Materials Prepared by a Spray Pyrolysis for the Photocatalytic Activity under UV and Sunlight Irradiations  K Kusdianto, W Widiyastuti, M Shimada, L Qomariyah, and S Winardi

Venue: Arcadia III, Armada Hotel (ROOM 3)

Time: 4.15 pm - 6.30 pmChairperson: Dr Fathiah, UM

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4.15 - 4.30pm	PCM-17	Numerical Simulation of the Drying Kinetics of Sweet Potato to Prevent the Growth of the Fungi Rhizopus oryzae <i>F I V Obregon, M B C Silvano, J G Vicencio, and L D B Pestaño</i>
4.30 - 4.45pm	PCM-19	Modeling And Optimization Of Pilot-Scale Subcritical Water Extraction On Zingiber Zerumbet By Central Composite Design Siti Nur Khairunisa Mohd Amir, Mariam Firdhaus Mad Nordin, Kamyar Shameli, Izzati Mohamad Abdul Wahab, and Mariani Abdul Hamid
4.45 - 5.00pm	PCM-20	Optimization Of Fe(III) Ion Adsorption Using Aceh Activated Zeolite In Fixed Bed Column Using Response Surface Methodology F. Redha, E. Munawar, and D. Darmadi
		Parametric And Optimization Studies For Biochar Production
5.00 5.15	DCM 22	From Municipal Solid Wastes (MSW) Via Pyrolysis
5.00 - 5.15pm	PCM-22	Katrina Joy T. Castillo, Monet, Concepcion Maguyon-Detras, Veronica P. Migo, and Catalino G. Alfafara
5.15 - 5.30pm	PCM-23	Model Predictive Control Of Vinyl Chloride Monomer Process By Aspen Plus Dynamics And MATLAB/Simulink Co- Simulation Approach J Chinprasit and C Panjapornpon
5.30 - 5.45pm	PCM-24	Dynamic Multi-Objective Optimization of Autocatalytic Esterification in Semi Batch by Using Control Vector Parameterization (CVP) and Non-Dominated Sorting Genetic Algorithm (NSGA-II)  F S Rohman and N Aziz
5.45 - 6.00pm	PCM-26	Fouling Detection in Heat Exchangers using Extended Kalman Filter S. Muenthong, S. Chattakarn, and V. Lersbamrungsuk
6.00 - 6.15pm	PCM-28	Input/Output Linearizing Controller With Taylor Series Expansion For A Non-Minimum Phase Process By Hardware- In-The-Loop Approach C Panjapornpon, I Kajornrungsilp, and C Rochpuang
6.15 - 6.30pm		V 1 1 V V V 1 V
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Venue: Arista, Armada Hotel (ROOM 4)

Time: 4.15 pm – 6.30 pm Chairperson: Dr Juwari, Indonesia

4.15 - 4.30pm	SHE-11	Development Of Low-Cost Aerobic Bioreactor For Decentralized Grey Water Treatment A Paramesti, B A Damarjati, A Widyaparaga, Deendarlianto, A Mindaryani, L Marbelia, and W Budhijanto
4.30 - 4.45pm	SHE-13	Optimization Of Progressive Freeze Concentration On Stormwater Purification Via Response Surface Methodology F H Ab Hamid, S A Salim, and M S Mat-Shayuti
4.45 - 5.00pm	SHE-14	The Steps in Preventing, Monitoring and Removing of Fouling Scale on Operation of Evaporator  Zainus Salimin, Lilis Kistriyani, and Ratiko
5.00 - 5.15pm	SHE-15	Bio-Remediation Of Palm Oil Mill Effluent (POME) Using Aspergillus Niger Immobilized On Coconut Husk And Free Cell Fermentation
		P Thegarathah, J Jewaratnam and K Simarani
5.15 - 5.30pm	SHE-17	A Comparative Study of Conventional Aerator and Microbubble Generator in Aerobic Reactors for Wastewater Treatment  Lisendra Marbelia, Athina Wan Noor, Asa Paramesti, Bimo A.  Damarjati, Adhika Widyaparaga, Deendarlianto, Muhammad R.  Bilad, and Wiratni Budhijanto
5.30 - 5.45pm	SHE-18	Adsorption Of Copper, Nickel And Chromium Ions Using Silica Aerogel Synthesized By Ambient-Pressure Drying And Modified With EDTA B Pornchuti, B Pongpattananurak, D Sutthiard, and P Singtothong
5.45 - 6.00pm	SHE-19	Chromium Removal From Chrome-Tannery Effluent After Alkaline Precipitation By Adsorption Using Municipal Solid Waste-Derived Activated Biochar Julienne Eris L. Parañaque, Monet Concepcion Maguyon-Detras, Veronica P. Migo, and Catalino G. Alfafara
6.00 - 6.15pm	SHE-23	Nutrient Recovery From Sloughterhouse Wastewater S Sreyvich, H T B M Petrus, and C W Purnomo
6.15 - 6.30pm	SHE-24	Ammonium Ion Removal using Activated Zeolite and Chitosan N N Safie and A Y Zahrim

Venue: Atlanta East, Armada Hotel (ROOM 5)

Time: 4.15 pm – 6.30 pm Chairperson: Dr Fahrurrozi, Indonesia

4.15 - 4.30pm	AOI-13	Utilization Of Corn Cob Waste As An Alternative Composite Material Of Motorcycle Non-Asbestos Brake Lining Sukirman, S Ma'mun, A Fahruli, and R E Yulpando
4.30 - 4.45pm	AOI-15	Preparation Of Cationic Polyurethane Dispersion And Its Effectiveness As Denim Dye Fixing Agent M. Sundang, C. S. Sipaut, and S. Saalah
4.45 - 5.00pm	AOI-16	Effect Of Zncl2 On Properties Of Graphene Produced From Palm Empty Fruit Bunch  I F Sukmana, P Widiatmoko, I Nurdin, Devianto, and T Prakoso
5.00 - 5.15pm	AOI-17	Synthesis Of Precipitated Silica From Bagasse Ash As Reinforcing Filler In Rubber M Sholeh, R Rochmadi, H Sulistyo, and B Budhijanto
5.15 - 5.30pm	AOI-18	Photocatalytic Degradation Of Atrazine Herbicide Using Nano- Hydroxyapatite From Cow Bone Synthesized Via Simulated Body Fluid Rugi Vicente Rubi, Erison Roque, Francis Dela Rosa, Rey Martin Estoque, Gerald Olvido, Patricia Jane Perey, Jabin Sta. Teresa, and May Anne Tesalona
5.30 - 5.45pm	AOI-20	New Monopolar Arrangement Of Electrodes To Enhance The Production Of Magnetite Nanoparticles In An Electrochemical Cell  H Setyawan, P Nurlilasari, and W Widiyastuti
5.45 - 6.00pm	AOI-21	Effect Of Different Bleaching Reagents And Process Sequences On The Properties Of Steam-Exploded Empty Fruit Bunch (EFB) Fiber MAF Supian, S Mohamad, KNM Amin, SS Jamari, J Zakaria, MF Ali, and SFS Mohamad
6.00 - 6.15pm	AOI-22	UV-Shielding Biodegradable Films Based on Carboxymethyl Cellulose Filled with Henna Extracts  N Danmatam and D Pattavarakorn
6.15 - 6.30pm	AOI-23	Preparation and Properties of Phase Change Material by Microencapsulation of Lauric Acid for Thermal Regulation <i>M K Gecain and R L De Leon</i>

Date: 30 October 2019 Venue: Atlanta West, Armada Hotel (ROOM 6)

> Time: 4.15 pm – 6.30 pm Chairperson: Dr Anisuzzaman, UMS

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4.15 - 4.30pm	BIO-14	Acetate switch in Methanococcus maripaludis
1.15 1.50pm		C.H. Vo, I.A. Karimi, and M. Kraft
4.30 - 4.45pm	BIO-10	Effect of Pore Size of Monofilament Woven Filter Cloth as Supporting Material for Dynamic Membrane (DM) Filtration on Performance using Aerobic Membrane Bioreactor Technology (MBR)  Mahat. S.B., Omar. R., Ling. L.J., Mohd Idris A.I., Che Man. H.,
		Mustapa Kamal S.M., and Idris. A.
4.45 - 5.00pm	BIO-11	The Optimal Condition on the Growth of Green Haematococcus Pluvialis as one of the Future Natural Resources
1		Judy Retti Witono, Alvin Gunadi, Herry Santoso, Arry Miryanti, and Angela J. Kumalaputri
5.00 - 5.15pm	BIO-12	Determination of Diffusion Coefficients and Antioxidant Activities of Ascorbic Acid in Guava Juice using Cyclic Voltammetry K. B. A. Ang, C. M. Lee, H. M. O. Yu, M. Uy, A. N. Soriano, and N. P. Dugos
5.15 - 5.30pm	BIO-13	Performance of Stored Electrolyzed Seawater for Disinfection of Pseudomonas aeruginosa <i>Michelle Joan C. Ferrer, Ryan Kenneth L. Lim, Russell Dillon A. Cue, Arnel B. Beltran, Regina G. Damalerio, and Marigold O. Uba</i>
5.30 - 5.45pm	BIO-15	Evaluation Of Spirulina Platensis In Bicarbonate-Based Integrated Carbon Capture And Algae Production System Utilizing Different Culture Media C C Batac, N S Gathercole, A F Maravilla, and A B Beltran
5.45 - 6.00pm	BIO-16	Bioethanol Production From Microalgae Chlorella Sorokiniana Via Simultaneous Saccharification And Fermentation N J Tatel and C Madrazo
6.00 - 6.15pm	BIO-17	Microencapsulation of Riboflavin (Vitamin B2) using Alginate and Chitosan: Effect of Alginate and Chitosan Concentration upon Microcapsule Diameter <i>YC. Danarto, Rochmadi, and Budhijanto</i>
6.15 - 6.30pm	BIO-18	Microparticles of Ganoderma lucidum Extract Generated by Electrospraying Siti Machmudah, Dwi Setyorini, Sugeng Winardi, Wahyudiono, Hideki Kanda, and Motonobu Goto



Date: 31 October 2019

Venue: Arcadia I, Armada Hotel (ROOM 1)

Time: 11.15 am - 12.30 am

Chairperson: Prof Sanggono, Indonesia

11.15 - 11.30am	SPE-23	Simulation Of The Drying Process Of Polysaccharide Extract Solution In a Spray Dryer Tantular Nurtono, Widiyastuti Widiyastuti, Annie Mufyda Rahmatika, Siti Machmudah, and Sugeng Winardi
11.30 - 11.45am	SPE-27	Review: A Comparison of Conditions for The Extraction of Vegetable and Essential Oils Via Microwave-Assisted Extraction  Mohd Haffizi, Sarina Sulaiman, Dzun Noraini Jimat, and Azura Amid
11.45 - 12.00 pm	SPE-28	Effect Of Addition Of Dodecyl Trimethyl Ammonium Bromide Surfactant Toward Recovery Of Bitumen From Asbuton With Modified Hot Water Process Method YN Ariq, FA Rahmatika, MF Susanto, Susianto, A Altway, and ZL Rinanda
12.00 - 12.15 pm	SPE-29	Assessment Of Patterned Membrane In A Tilted Panel Filtration System For Fouling Control In Activated Sludge Filtration Wan Nur Aisyah Wan Osman, MR Bilad, and Shafirah Samsuri
12.15 - 12.30 pm	SPE-31	Retention of Bioactive Compound in the Concentration of Centella Asiatica Extract through Progressive Freezing N. A. Amran, N. H. Mohd Rafee, and S. Samsuri



Date: 31 October 2019

Venue: Arcadia II, Armada Hotel (ROOM 2)

Time: 11.15 am - 12.30 amChairperson: Prof Kheireddine

11.15 - 11.30am	CRE-26	Lactic Acid Production from High Concentration of Invert Sugar in Semi-Batch Reactor R Sirisangsawang and P Kitchaiya
11.30 - 11.45am	CRE-30	Preliminary Modified Biodiesel Production By Coupling Reactive Distillation With A Steam Reformer Via Aspen Plus® C Treeyawetchakul
11.45 - 12.00 pm	CRE-32	Validation Of Mathematical Model Of Hydrotropic-Reactive Extraction Of Lignin I Hartati, W B Sediawan, H Sulistyo, M M Azis, and M Fahrurrozi
12.00 - 12.15 pm	CRE-37	Parameters Study On The Production Of Isoamyl Acetate Via Milli-Reactor In A Solvent-Free System Nuraini Mansor, Rajaviknesswaran Singaravelan, and Syamsul Rizal Abd Shukor



Date: 31 October 2019

Venue: Arcadia III, Armada Hotel (ROOM 3)

Time: 11.15 am - 12.30 amChairperson: Dr Norliza, UKM

11.15 - 11.30am	PCM-29	A Mixed Integer Nonlinear Programing Approach For Integrated Bio-Refinery And Petroleum Refinery Topology Optimization Ahmed Mahmoud and Jaka Sunarso
11.30 - 11.45am	PCM-30	Multi-Objective Optimization for Combined Heat Power Operations considering Flexibility, Costs and Environmental Emissions Lok Wei Jen, Ng Lik Yin, and Viknesh Andiappan
11.45 - 12.00 pm	AOI-3	Process Development of Saxagliptin Intermediate — Production of 2S-cis-4,5-Methanoprolineamide at the Kiloscale A. Ya Lin, Tnay, and B. Eiji Nishimura
12.00 - 12.15 pm	PCM-33	Electrospinning of PLA with DMF: Effect of Polymer Concentration On The Bead Diameter Of The Electrospun Fibre  Ainaa Amirah Md Zubir, M P Khairunnisa, Nur Atiqah Surib,  J NorRuwaida, Abd Halim bin Md Ali, and M Rashid
12.15 - 12.30 pm	PCM-35	Optimization Of Methanol Production Via CO <sub>2</sub> Hydrogenation: Comparison Of Sampling Techniques For Process Modeling  Process Modeling  Process Modeling



Date: 31 October 2019

Venue: Arista, Armada Hotel (ROOM 4)

Time: 11.15 am - 12.30 amChairperson: Dr Norhuda, MJIIT

11.15 - 11.30am	SHE-26	The Effect of Leachate Recirculation on The Greenhouse Gases Emission from Municipal Solid Waste (MSW) Landfill in Tropical Climate Region <i>Q H Ali, S R Sugihen, E Munawar, and Adisalamun</i>
11.30 - 11.45am	SHE-28	Exergy analysis and energy utilization in the transportation sector of the Philippines  R J Q Buenafe, R A P Lomeda, R R C Rivera, C L Tagalog, and A N Soriano
11.45 - 12.00 pm	SHE-32	Phosphorus Recovery From Septage Treatment Plant Sludge By Struvite Formation With Alkaline Hydrolysis As Pre- Treatment C K L Nochefranca, Z K C Oyson, A B San Pedro, C M Pausta, R Damalerio, M B Promentilla, A B Beltran, D Saroj, and A H Orbecido
12.00 - 12.15 pm	BIO-6	Preliminary Study On The Treatment Of Textile Effluent Using Ascomycotina Fungus Letendraea Helminthicola BAMF1 Ira Puspita Sari and Khanom Simarani
12.15 - 12.30 pm	BIO-21	Synthesis of Bioactive Glass using Cellulose Nano Fiber Template M Sarmast. Sh, S George, C. AB Dayang Radiah, N Abdullah, and S Kamarudin



Date: 31 October 2019

Venue: Atlanta East, Armada Hotel (ROOM 5)

Time: 11.15 am - 12.30 amChairperson: Dr Hanee, UM

11.15 - 11.30am	AOI-27	Synthesis and Modification of Metal Nanoparticles by Plasma over an Aqueous Solution under Pressurized Argon Wahyudiono, Hiroki Kondo, Motoki Yamada, Noriharu Takada, Siti Machmudah, Hideki Kanda, and Motonobu Goto
11.30 - 11.45am	AOI-30	A Hydrophobic Cellulose Aerogel From Coir Fibers Waste For Oil Spill Application M Fauziyah, W Widiyastuti, and H Setyawan
11.45 - 12.00 pm	AOI-31	MnO2 Nanoparticles Prepared By Alternating Monopolar Arrangement Electrolysis And Their Electrochemical Performances  Widiyastuti, Heru Setyawan, Mahardika F. Rois, Hariyati Purwaningsih, and Puspita Nurlilasari
12.00 - 12.15 pm	AOI-42	The Effect Of Hydrophobic Particles On Evaporation Rate In A Solar Steam Generation System  Tomomi Hasegawa and Wuled Lenggoro
12.15 - 12.30 pm	AOI-41	Unravelling the Swelling Behaviour and Antibacterial Activity of Palm Cellulose Nanofiber-based Metallic Nanocomposites  Janarthanan Supramaniam, See Kiat Wong, Bey Fen Leo, Loh Teng Hern Tan, Bey Hing Goh, and Siah Ying Tang



Date: 31 October 2019

Venue: Atlanta West, Armada Hotel (ROOM 6)

Time: 11.15 am - 12.15 amChairperson: Prof Zainal, USM

11.15 - 11.30am	AOI-36	Sulfur Copolymers (SDIB) From Inverse Vulcanization Of Elemental Sulfur (S <sub>8</sub> ) For Polymer Blend Ronaldo P Parreño Jr, Ying-Ling Liu, and Arnel B Beltran
11.30 - 11.45am	AOI-37	Synthesis of Phenol Formaldehyde Resin with Paraformaldehyde and Formalin Nuruldiyanah Kamarudin, Dayang Radiah Awang Biak, Zurina Zainal Abidin, Francisco Cardona, and Mohd Sapuan Salit
11.45 - 12.00 pm	AOI-38	Effect Of Forming Temperature On Properties Of Biocoke From Palm Oil Residues Peeradej Saisermsak and Jintawat Chaichanawong
12.00 - 12.15 pm	SPE-6	Solvent Extraction And Stripping Of Transition Metals From Aqueous Media With Deep Eutectic Solvent As Extractant <i>P D Ola, Y Kurobe, and M Matsumoto</i>



Date: 31 October 2019

Venue: Arcadia I, Armada Hotel (ROOM 1)

Time: 1.45 pm - 3.00 pmChairperson: Dr Farid, UNIMAS

1.45 - 2.00pm	SPE-32	Preparation of Highly Hydrophobic PVDF-HFP Membrane with Anti-Wettability Characteristic  M J Toh, P C Oh, and M I S Mohd Shaufi
2.00 - 2.15pm	SPE-33	A Critical Review On Microwave, Fluidised-Bed And Convective Air-Drying Of Low Rank Coals: The Water Diffusivity On Coals Jasper J X Chan and C H Chong
2.15 - 2.30pm	SPE-34	Fabrication of Polythiourea-Copper Complex Composite Membrane and its Anti-fouling Property M T Margarito, A B Beltran, MA Promentilla, A Orbecido, B Basilia, R Damalerio, and U Bigol
2.30 - 2.45pm	SPE-37	Comparing The Performance Of Low-Grade Nickel Ore And Limestone For Treatment Of Synthetic Acid Mine Drainage D J A Fabella, K A N Sadol, C O Turingan, A B B Beltran, R D Alorro, and A H Orbecido
2.45 - 3.00pm	SPE-7	Absorption of CO2 in Aqueous Blend of Methyldiethanolamine and Arginine  Ahmed Gomaa Talkhan, Mustafa. N. Nasser, Muftah H. El-Naas, Abdelbaki Benamor, S. A. El-Tayeb, and S. M. El-Marsafy



Date: 31 October 2019

Venue: Arcadia II, Armada Hotel (ROOM 2)

Time: 1.45 pm - 3.00 pmChairperson: Dr Awanis, UM

1.45 - 2.00pm	CRE-13	Characterization and Catalytic Activity of γ-Al2O3-ITB on Methanol Dehydration  A Ardy, J Rizkiana, M L Gunawan, and H Susanto
2.00 - 2.15pm	CRE-40	Selective Short Chain Carboxylic Acid Production over Fe: Zeolite Nanoparticles from CO <sub>2</sub> Hydrogenation Reaction Nurazni Amat Bahari and Wan Nor Roslam Wan Isahak
2.15 - 2.30pm	CRE-41	Kinetic Study Of Low-Density Polyethylene Waste Pyrolysis Using Kaolin As Catalyst Emi Erawati, Hamid, and Danik Martenda
2.30 - 2.45pm	CRE-23	Exsolution Of Nickel Alloys Anchored Nanoparticles On Perovskite Oxides For CO Oxidation W K Wan Ramli, E Papaioannou, D Naegu, and I S Metcalfe
2.45 - 3.00pm	CRE-34	Use Of Metal Mesh To Assist The Multi-Phase Reaction In A Microreactor  P Charoenpong and V Pavarajarn



Date: 31 October 2019

Venue: Arcadia III, Armada Hotel (ROOM 3)

Time: 1.45 pm - 3.00 pmChairperson: Dr Tan, UM

1.45 - 2.00pm	PCM-36	Dynamic Modeling: The Influence Of The Improved Solid Elutriation Correlation On The Two-Phase Mathematical Model Of Polyolefin Polymerization In Gas-Phase Fluidized Bed Reactor  M F Atan and M A Hussain
2.00 - 2.15pm	PCM-37	Hybrid Fuzzy-Disturbance Observer For Estimating Disturbance In Styrene Polymerization Process A. M. Shamsul Bahrin and J. Mohd Ali
2.15 - 2.30pm	PCM-38	Implementation of Model Predictive Control in Tracking Dynamic Optimal Profiles of Semi Batch Autocatalytic Esterification Reactor F S Rohman, D Muhammad, and N Aziz
2.30 - 2.45pm	PCM-40	Computational Fluid Dynamics Simulation of Fluidized Bed Dryer for Sago Pith Waste Drying Process Abdul Mu'im Abdul Nasir, Masli Irwan Rosli, Mohd Sobri Takriff, Nur Tantiyani Ali Othman, and Vinotharan Ravichandar
2.45 - 3.00pm	PCM-42	Intermolecular Interaction of Tween 80, Water and Butanol in Micelles Formation via Molecular Dynamics Simulation  Junaidi Zakaria, Syamsul Rizal Abd Shukor, and Khairunisak Abd Razak



Date: 31 October 2019

Venue: Arista, Armada Hotel (ROOM 4)

Time: 1.45 pm - 3.00 pmChairperson: Dr Fazly, UM

1.45 - 2.00pm	SHE-33	A Comparison Of The Acid Mine Drainage (AMD) Neutralization Potential Of Low Grade Nickel Laterite And Other Alkaline-Generating Materials C. Turingan, G. Singson, B. Melchor, R. Alorro, A. Beltran, and A. Orbecido
2.00 - 2.15pm	SHE-34	Effect of Coolant Temperature and Stirring Rate in the Separation of Oil from Bilge Water using a Stirred Freeze Crystallizer  S. N. A. Mustapha, N. A. Amran, and S. Samsuri
2.15 - 2.30pm	SHE-36	Integrated Life Cycle Assessment-Analytic Hierarchy Process (LCA-AHP) With Sensitivity Analysis Of Phosphorus Recovery From Wastewater In Metro Manila  Carla Mae J. Pausta, Luis F. Razon, Aileen H. Orbecido,  Devendra P. Saroj, and Michael Angelo B. Promentilla
2.30 - 2.45pm	SHE-37	Life Cycle Assessment of Refuse Derived Fuel (RDF) for Municipal Solid Waste (MSW) Management: Case Study Area Around Cement Industry, Cirebon, Indonesia TT Anasstasia, E Lestianingrum, R B Cahyono, and M M Azis
2.45 - 3.00pm	SHE-10	Combined Natural And Chemical Coagulants To Remove Fluoride From Wastewater V L Chee, C H Chong, C M Choo, and Thomas S Y Choong



Date: 31 October 2019

Venue: Atlanta East, Armada Hotel (ROOM 5)

Time: 1.45 pm - 3.00 pmChairperson: Dr Jega, UM

1.45 - 2.00pm	PEP-40	Rheological Study Of Oil Palm Trunk Waste As Viscosifier Agent On Water-Based Mud Husna Hayati Binti Jarni, Mohd Firdaus Bin Sariman, Arina Binti Sauki, Wan Zairani Binti Wan Bakar, and Tengku Amran Bin Tengku Mohd
2.00 - 2.15pm	AOI-43	Synthesis and Characterization of Fe3O4 Nanoparticles Using Different Experimental Methods  Nafis Mahmud, Mustafa S. Nasser, Muftah H. El-Naas, Muneer M. Ba-Abbad, Abdul Wahab Mohammad, Said Mansour, and Abdelbaki Benamor
2.15 - 2.30pm	BIO-23	Optimization Of Enzyme Assisted Extraction Of Palm Oil Rich In Antioxidant Capacity Hemavathi Silvamany, Jamaliah Md Jahim, and Ahmad Jaril Asis
2.30 - 2.45pm	AOI-32	Mesoporous Silica Nanoparticles As Vehicles For Drug Delivery I M Adristya, A D Suryaningtyas, J Wijaya, F C Pangestu, S B Hartono, L H Soewignyo, and W Irawaty
2.45 - 3.00pm	BIO-9	Production Of Enzymes From Pineapple Crown And Coffee Husk By Solid State Fermentation Noraziah Abu Yazid and Ainur Razanah Roslan



Date: 31 October 2019

Venue: Atlanta West, Armada Hotel (ROOM 6)

Time: 2.15 pm - 3.00 pmChairperson: Dr Iskandar, UM

2.15 - 2.30pm	PEP-26	Barium Sulfate Scale Dissolution Using Ethylenediaminetetraacetic Acid (EDTA) Sazali, R.A., Awang Kechik, N.I., Yahya, E., and Mat-Shayuti, M.S.
2.30 - 2.45pm	PEP-27	Effect Of Glucose Concentration And Cultivation Days On Chlorella Vulgaris Growth Via Immobilization Technique For Biodiesel Production NR Abu Sepian, NH Mat Yasin, and N Zainol
2.45 - 3.00pm	SPE-30	Membrane Fouling Control In Forward Osmosis For Dewatering Of Chlorella Vulgaris S N Hidayah, M R Bilad, S M Hizam, N I M Nawi, E L A Rampun, Muthia Elma



Date: 31 October 2019

Venue: Arcadia I, Armada Hotel (ROOM 1)

Time: 3.15 pm - 5.15 pmChairperson: Dr Badrul, UM

3.15 - 3.30pm	PEP-2	Effect of Gasification Temperature on Synthesis Gas Production and Gasification Performance for Raw and Torrefied Palm Mesocarp Fibre  N H A Halim, S Saleh, and N A F A Samad
3.30 - 3.45pm	PEP-5	Investigation Of Water-Flooding Activity Using Radiotracer Technology In Commercial Core-Flood Set Up N Othman, I M Saaid, A Ahmed, N H Yusof, R Yahya, M A S Mohd Yunos, E M S Engku Chik, M R Shari, H Hassan, and A A Mahmood
3.45 - 4.00pm	PEP-7	Production And Characterization Of Biodiesel From Annona Muricata Seed Oil J R Avendaño, S Canlas, M Falalimpa, and M N Dimaano
4.15 - 4.30pm	PEP-8	Thermogravimetric Analyses (TGA) Of Three Oil Palm Biomass Pyrolysis: Kinetics And Reaction Mechanisms Megan Soh, Jiuan Jing Chew, and Jaka Sunarso
4.30 - 4.45pm	PEP-10	The Optimization Of Natural Gas Utilization Network In Single Region Using Pinch Analysis Method  R P Anugraha, Annasit, A Altway, Juwari, and Renanto
4.45 - 5.00pm	PEP-13	Agile Solar Roof Tile Hvac S Sinha, N Abdul Manaf, K Pethe, M Tri Luu, D Milani, A Abbas
5.00 - 5.15pm	PEP-15	Acetalization Of Glycerol With Acetone To Produce Solketal As Fuel Additives Using Amberlyst-15 Catalyst H. Sulistyo, E. N. Huda, T. S. Utami, W. B. Sediawan, S. S. Rahayu, and M. M. Azis

Venue: Arcadia II, Armada Hotel (ROOM 2)

Time: 3.15 pm – 5.30 pm Chairperson: Dr Usman, UM

3.15 - 3.30pm	CRE-14	Life Cycle Assessment Of Ethylene Production From Empty Fruit Bunch R Akmalina and M G Pawitra
3.30 - 3.45pm	CRE-15	Effect Of Reaction Parameters On Lipase-Catalyzed Kinetic Resolution Of (RS)-Metoprolol  Asiah Zulkifli, Mariani Rajin, Sariah Abang, S.M Anissuzzaman, and Azlina Harun@ Kamaruddin
3.45 - 4.00pm	CRE-16	Electrospray Synthesis And Photocatalytic Activities Of Zno-SiO2 Composites Particles  L Qomariyah, W widiyastuti, K Kusdianto, T Nurtono, D  Anggoro, and S Winardi
4.15 - 4.30pm	CRE-17	Kinetic Analysis on Reduction of Carbon-Infiltrated Porous Hematite by Curve Fitting Method K Abe, A Kurinawan, K Ohashi, M Sanada, T Nomura, and T Akiyama
4.30 - 4.45pm	CRE-18	Kinetic Study of Simultaneous Ethanol Decomposition and Reduction of Low-grade Iron ore at Transient Temperature A Kurniawan, K Abe, M Sanada, T Nomura, and T Akiyama
4.45 - 5.00pm	CRE-19	Size-Selective Treatment of Polypropylene Particles in a Plasma Cyclone Reactor H. Sekiguchi, S. Kodama, K. Ishikawa, and K. Miyazaki
5.00 - 5.15pm	CRE-22	Aspen Plus Simulation-Based Parametric Study Of Benfield Process Using Hot Potassium Carbonate Promoted By Diethanolamine  L W W Ngu, A Mahmoud, and J Sunarso
5.15 – 5.30pm	CRE-24	Wetted Wall Photocatalytic Reactor for Methylene Blue Degradation Amornpon Boonying, Artith Kasempremsak, Supunee Junpirom, and Aroonsri Nuchitprasittichai

Date: 31 October 2019

Venue: Arcadia III, Armada Hotel (ROOM 3)

Time: 3.15 pm - 5.30 pmChairperson: Dr Fairus, UM

3.15 - 3.30pm	SPE-10	Comparative Study Of Heat Pump Assisted Distillation Column And Its Application For Pressure Swing Distillation Process Dyah Retno Sawitri and Arief Budiman
3.30 - 3.45pm	PCM-43	Aiding Alarm Rationalization By Automatic Identification Of Various Sequential Patterns In Large Volume Of Alarm And Event Log Data Kaushik Ghosh and Gokula Krishnan Sivaprakasam
3.45 - 4.00pm	PCM-44	Exploring The Implementation Barriers Of Eco-Toilet System In The Philippines Using Decision-Making Trial And Evaluation Laboratory (DEMATEL) Approach  J J J Ignacio, C F Malolos, N I Mendoza, J Lantin, A H Orbecido, and M A B Promentilla
4.15 - 4.30pm	PCM-45	Synthesis of Bio-Hydrogen Network from Landfill Gas Sadaf Hemmati, Chee Hoong Lee, Darren Yu Lun Chong, M.Mostafa Elnegihi, Dominic C. Y. Foo, and Bing Shen How
4.30 - 4.45pm	PCM-46	Artificial Neural Network Topology Optimization using K-Fold Cross Validation for Spray Drying of Coconut Milk Jesse Lee Kar Ming, Farah Saleena Taip, Mohd Shamsul Anuar, Samsul Bahari Mohd Noor, Zalizawati Abdullah
4.45 - 5.00pm	PCM-47	Process Simulation Of The Pilot Scale Bioethanol Production From Rice Straw By Aspen HysysPhung K Le, Tin D T Le, Quan D Nguyen, Viet T Tran, and Phong T Mai
5.00 - 5.15pm	PCM-31	Optimization of Agitation and Kinetic Studies on Proanthocyanidin Compound Extraction from Red Sorghum Grains in Agitated Vessel D Y Susanti, W B Sediawan, M Fahrurrozi, and M Hidayat
5.15 – 5.30pm	PCM-27	Stabilization of Quadruple-Tank Process with Time Delay via Tracking-Error Control in Relaxing Port-Hamiltonian Structure Thanh Sang, Nguyen, Chee Keong, Tan, Ngoc Ha, Hoang, and Mohd Azlan, Hussain

Date: 31 October 2019

Venue: Arista, Armada Hotel (ROOM 4)

Time: 3.15 pm - 5.15 pmChairperson: Dr Izzudin, UM

3.15 - 3.30pm	SHE-39	Acute Toxicity Assessment Of Heavy Metals Combination Using Microtox m500 Instrument  Amirul Ashraf bin Abdul Razak and Dzulkarnain bin Zaini
3.30 - 3.45pm	SHE-30	Sustainability Assessment Of Levulinic Acid And Succinic Acid Production From Empty Fruit Bunch  R H Hafyan, L Bhullar, Z A Putra, M R Bilad, M D H Wirzal, and
		NAHM Nordin
3.45 - 4.00pm	SHE-41	Effect Of Biocover Thickness On Methane Oxidation Rate Of Landfill Gas Emission From Municipal Solid Waste Landfill In Tropical Climate Region
		Yusnan, F. Razi, and E. Munawar
4.15 - 4.30pm	SHE-42	Evaluation of Hydrocarbon Gas Dispersion and Explosion in a Gas Processing Plant
		D Rismayasari, Y W Budhi, J Rizkiana, T Cahyono, and Khairunnisa
4.30 - 4.45pm	SHE-43	Cogeneration System For Energy Saving And CO2 Emission Reduction: A Case Study Of Textile Factory
		P Sommani, T Krittametaporn, and A W Lothongkum
4.45 - 5.00pm	SHE-47	Adsorption Of 4-Nitrophenol From Wastewater Using Sea Mango (Cerbera odollam) Based Activated Carbon Nurul Zufarhana Zulkurnai, Nor Wahidatul Azura Zainon Najib,
		Umi Fazara Md Ali, and Tan Ru Shien
5.00 - 5.15pm	BIO-19	Evaluation of different carbonate sources for bicarbonate- based integrated carbon capture and algae production system using Spirulina platensis  C C Batac, N S Gathercole, A F Maravilla, and A B Beltran

Venue: Atlanta East, Armada Hotel (ROOM 5)

Time: 3.15 pm - 5.30 pmChairperson: Dr Ching, UM

3.15 - 3.30pm	PEP-11	The Effect of Clay Content in the Adsorption of Surfactant by Reservoir Rock in the Enhanced Oil Recovery Process
		L Nurmayanti, S Y P Dewi, B Murachman, and S Purwono
3.30 - 3.45pm	PEP-28	Pyrolysis and Carbon Dioxide Gasification Kinetics of Pine Cones and Lignite Blends
		Janica Y. Ang, Perry C. Dee, Amos B. Tan, and Vergel C. Bungay
3.45 - 4.00pm	PEP-30	Process Design and Steady State Simulation of Natural Gas Dehydration Using Triethylene Glycol (TEG) to Obtain The Optimum Total Annual Costs (TAC)  N Kharisma, P S D Arianti, S A Affandy, R P Anugraha, Juwari, and Renanto
4.15 - 4.30pm	PEP-31	Surface Modified Silica Nanoparticles With Hexytrimethoxysilane For Carbon Dioxide Foam Stabilization In Enhanced Oil Recovery
		Tengku Amran Tengku Mohd, Azwan Harun, Noor Fitrah Abu Bakar, Muhammad Shafiq Mat Shayuti and Mohd Zaidi Jaafar
4.30 - 4.45pm	PEP-33	Application Surfactant-Polymer Flooding For Improving Oil Recovery In The Indonesian Oil Field
		W Hasokowati, Rochmadi, S Purwono, B Murachman, J Wintoko, A T Yuliansyah, and M M Azis
4.45 - 5.00pm	PEP-36	Kinetic Analysis Of Co-Pyrolysis Of Biomass/Sorbent Mixtures At Different Ratios
		A R Ariffen and N Yusoff
5.00 - 5.15pm	PEP-38	Optimization of Small-Scale Natural Gas Liquefaction using Nitrogen Expander with Precooled Cycle
		M A Henryawan and W W Purwanto



Date: 31 October 2019

Venue: Atlanta West, Armada Hotel (ROOM 6)

Time: 3.15 pm - 5.15 pmChairperson: Dr Iskandar UM

3.15 - 3.30pm	CEE-6	Study and Experimental Setup of Liquid-Solid Fluidization in Rangsit University  S. Chunsawang and W. Ekasilp
3.30 - 3.45pm	CEE-1	Early Intervention of Process Simulation and Automation Teaching in Chemical Engineering Fadzrul Izwan Muhd Ali, Zulfan Adi Putra, Farah Syamim Anwar, Zalina Harun, Haslinda Zabiri, and Shahrul Azman Zainal Abidin
3.45 - 4.00pm	CEE-3	The Development Of An Iron Detection Method Based On Ammonium Nadine Jenina A. Gallardo, Gemma Fae T. Monakil, Sheena I. Surla, and Edna C. Quinto
4.15 - 4.30pm	CEE-4	Amine-based Carbon Dioxide Absorption: The Effect of Ionic Strength on the Protonation Constant of Monoethanolamine and Its Temperature Dependency S Ma'mun, P K Setiawan, and E Indrayanto
4.30 - 4.45pm	CEE-7	Role Of Operator Training Simulator (OTS) In Capability Building Towards The Fourth Industrial Revolution (IR 4.0) A. Hasnor Hassaruddin Hashim, and B. Noorhidayah Hussein
4.45 - 5.00pm	CEE-8	Conceptual Design of a Process Plant for the Production of Natural Dye from Merbau (Intsia bijuga) Bark E Rahayuningsih, A Mindaryani, D T Adriyanti, L D Parthasiwi, P Adina H, and E Dyah A