

GENERAL PROGRAM / CONFERENCE AT A GLANCE

Sunday, 9th August 2020

Time	Programme
All day	Registration – scan QR code in the website

Monday, 10th August 2020

Time	Programme
All day	Registration – scan QR code in the website
09.00 am – 09.15 am	Welcoming speech by the Chairman of ICCEIB 2020 (pre-recorded video + montage) <i>Assoc. Prof. Dr. Cheng Chin Kui</i>
09.15 am – 09.30 am	<i>Official Opening Ceremony</i> (pre-recorded video + montage) <i>Vice-Chancellor UMP</i> <i>YBhg. Profesor Ir. Dr. Wan Azhar bin Wan Yusoff</i>
09.30 am – 10.15 am	Keynote 1 - (online streaming) https://meet.google.com/mhg-tjtx-xyx Title: Sustainable Hydrogen Production from Catalytic Reforming Processes of Biomass-derived Feedstocks Dr. Dai-Viet N. Vo (<i>Nguyen Tat Thanh University, Vietnam</i>) Chairperson: <i>Dr. Herma Dina Binti Setiabudi</i>
10.15 am – 11.00 am	Keynote 2 - (online streaming) https://meet.google.com/ybk-dbpe-tcb Title: ‘Pinching’ Eco Industrial Park: Maximising resource savings and minimising waste and emissions Professor. Ir. Dr. Sharifah Rafidah Binti Wan Alwi (<i>Universiti Teknologi Malaysia</i>) Chairperson: <i>Assoc. Prof. Dr. Sumaiya Binti Zainal Abidin</i>

Parallel Session 1 (online streaming)

11.00 am – 01.00 pm	TRACK A Food & Biotechnology Engineering I	TRACK B Energy & Catalysis I	TRACK C Advanced in Chemical Engineering I	TRACK D Water and Environmental Engineering I	TRACK E Process Control & Simulation I
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01.00 pm – 02.30 pm	BREAK				
02.30 pm – 03.15 pm	<p>Keynote 3 (online streaming) https://meet.google.com/nde-xjrj-ojy Title: Carbon-supported catalysts for sustainable biorefinery in water Professor Dr. Dan. C. W. Tsang <i>(The Hong Kong Polytechnic University)</i></p> <p>Chairperson: Assoc. Prof. Dr. Cheng Chin Kui</p>				
Parallel Session 2 (online streaming)					
03.15 pm – 05.15pm	TRACK A Food & Biotechnology Engineering II	TRACK B Energy & Catalysis II	TRACK C Advanced in Chemical Engineering II	TRACK D Advanced in Chemical Engineering II	TRACK E Food & Biotechnology Engineering II

Tuesday, 11th August 2018

Time	Programme				
09.00 am – 09.45 am	<p>Keynote 4 (prerecorded video) https://meet.google.com/pgy-yvnf-hns Title: Sustainability through technical process optimization Mr. Kiran Gheesulal Parihar <i>(Senior Manager, BASF)</i></p> <p>Chairperson: Dr. Aainaa Izyan Binti Nafsun</p>				
09.45 am – 10.00 am	BREAK				
10.00 am – 10.45 am	<p>Keynote 5 (online streaming) https://meet.google.com/ksx-cysw-mhb Title: Considering the ageing of membrane processes in water and wastewater treatment and recycling Assoc. Professor Pierre Le Clech <i>(University of New South Wales, Sydney, Australia)</i></p> <p>Chairperson: Assoc. Prof. Dr. Cheng Chin Kui</p>				
Parallel Session 3 (pre-recorded video)					
10.45 am – 12.45 pm	TRACK A Food and Biotechnology Engineering III	TRACK B Energy & Catalysis III	TRACK C Advanced in Chemical Engineering III	TRACK D Water & Environmental Engineering III	TRACK E Process Control & Simulation III
12.45 pm – 02.00 pm	BREAK				

Parallel Session 4 (pre-recorded video)			
02.00 pm – 05.30 pm	TRACK A Food & Biotechnology Engineering IV	TRACK B Energy & Catalysis IV	TRACK C Advanced in Chemical Engineering IV
05.30 pm	END OF PROGRAM		

*Note: Program details are subject to changes

DETAIL OF PARALLEL TENTATIVE
DAY 1 (10TH AUGUST 2020)
Online meeting via Google Meet

PARALLEL SESSION 1 (11:00 am – 1:00 pm)

Time	Track A: Food and biotechnology 1	Track B: Energy and catalysis 1	Track C: 1Adv. in Chem. Eng. 1	Track D: Water and Env. Eng. 1	Track E: Process Control & Simulation I
11:00	A118	A268	A133	A147	A276
11:15	A122	A177	A164	A342	A160
11:30	A137	A179	A168	A416	A357
11:45	A142	A243	A481	A196	A496
12:00	A152	A413	A527	A197	A497
12:15	A184	A201	A533	A162	A528
12:30	A326	A236	A159		A536
12:45	A245				

PARALLEL SESSION 2 (3:15 pm -5:30 pm)

Time	Track A: Food and biotechnology 2	Track B: Energy and catalysis 2	Track C: Adv. in Chem. Eng. 2	Track D: Adv. in Chem. Eng. 3	Track E: Food and biotechnology 3
3:15	A187	A222	A559	A206	A381
3:30	A192	A472	A227	A214	A386
3:45	A202	A475	A597	A215	A428
4:00	A255	A479	A374	A216	A477
4:15	A182	A500	A375	A250	A484
4:30	A273	A280	A398	A278	A548
4:45	A289	A540	A374	A444	A558
5:00	A567				A568
5:15	A525				

DETAIL OF PARALLEL TENTATIVE**DAY 2 (11TH AUGUST 2020)***Online meeting via closed Facebook account [ICCEIB2020 (Committees and Participants)]**Pre-recorded video***PARALLEL 3 (10:45 am - 1:30 pm)**

Time	Track A: Food and biotechnology 4	Track B: Energy and catalysis 3	Track C: Adv. in Chem. Eng. 4	Track D: Water and env. Eng. 2	Track E: Process Control & Simulation 2
10:45	A189	A125	A101	A108	A241
11:00	A211	A126	A115	A120	A393
11:15	A226	A128	A117	A200	A400
11:30	A237	A186	A119	A482	A176
11:45	A238	A260	A244	A487	A232
12:00	A248	A351	A330	A490	A281
12:15	A251	A153	A333	A541	
12:30	A259	A173	A450	A594	
12:45	A327	A178	A461	A438	
1:00	A353	A596	A195		
1:15			A244		

PARALLEL 4 (2.00 pm - 5:30 pm)

Time	Track A: Food and biotechnology 5	Track B: Energy and catalysis 4	Track C: Adv. in Chem. Eng. 5
2:00	A350	A552	A148
2:15	A379	A373	A169
2:30	A391	A368	A143
2:45	A407	A384	A549
3:00	A432	A406	A131
3:15	A464	A438	A132
3:30	A447	A560	A433
3:45	A480	A520	A499
4:00	A546	A183	A537
4:15	A554	A172	A564
4:30	A598	A265	A547
4:45	A595	A209	A551
5:00	A105	A487	A557
5:15			A468

DETAIL PROGRAM

9 August 2020	
Time	Programme
All day	Registration – scan QR code in the website
10 August 2020	
Day 1 Time	Programme
All day	Registration – scan QR code in the website
09.00 am – 09.15 am	Welcoming speech by the Chairman of ICCEIB 2020 (pre-recorded video + montage) <i>Assoc. Prof. Dr. Cheng Chin Kui</i>
09.15 am – 09.30 am	Official Opening Ceremony (pre-recorded video + montage) <i>Vice-Chancellor UMP</i> <i>YBhg. Profesor Ir. Dr. Wan Azhar bin Wan Yusoff</i>
KEYNOTE SESSION I	
09.30 am – 10.15 am	Keynote 1 - (online streaming) https://meet.google.com/mhg-tjtx-xyx Title: Sustainable Hydrogen Production from Catalytic Reforming Processes of Biomass-derived Feedstocks <i>Dr. Dai-Viet N. Vo</i> <i>(Nguyen Tat Thanh University, Vietnam)</i> Chairperson: <i>Dr. Herma Dina Binti Setiabudi</i>
10.15 am – 11.00 am	Keynote 2 - (online streaming) https://meet.google.com/ybk-dbpe-tcb Title: 'Pinching' Eco Industrial Park: Maximising resource savings and minimising waste and emissions <i>Professor. Ir. Dr. Sharifah Rafidah Binti Wan Alwi</i> <i>(Universiti Teknologi Malaysia)</i> Chairperson: <i>Assoc. Prof. Dr. Sumaiya Binti Zainal Abidin</i>

Parallel Session 1

TRACK A: Food & Biotechnology I

Chairman: Assoc. Prof. Dr. Azilah Binti Ajit @ Abd Aziz

- 11.00 – 11.15 **Mr. Hassani Abdelkader (Universiti Putra Malaysia)**
Formulation and Antioxidant Properties of Curcumin Gum Arabic Nanoparticles for Delivery to Cancer Cells
- 11.15 – 11.30 **Ms. Yashini Selvanathan (Universiti Malaysia Pahang)**
Statistical optimization of biovinegar production by mixed culture using central composite design using pineapple waste as a substrate
- 11.30 – 11.45 **Mrs. Chaitanya Reddy Chilakamarri (Universiti Malaysia Pahang)**
Keratin protein extraction from chicken feathers for development as wound healing spray
- 11.45 – 12.00 **Mr. Nagaarasan Ramesh (Universiti Malaysia Pahang)**
Kinetics studies and thermodynamics of oil extraction from immobilized microalgae cells of chlorella vulgaris: The effect of different matrix system
- 12.00 – 12.15 **Mrs. Nor Farahiyah Aman Nor (Universiti Teknologi Malaysia)**
Evolutions in the virgin coconut oil processing: liquid to powder
- 12.15 – 12.30 **Dr. Zatul Iffah Mohd Arshad (Universiti Malaysia Pahang)**
Isolation and characterization of mesophilic PLA-degrading bacteria from landfill soil
- 12.30 – 12.45 **Prof. Dr. Arun Gupta (Universiti Malaysia Pahang)**
PVA/PVP/ starch-based keratin hydrogel for wound dressing applications
- 12.45 – 13.00 **Dr. Jumardi Roslan (Universiti Malaysia Sabah)**
*Comparative Study on the Yield and Physicochemical Properties of Collagen from Sea Cucumber (*Holothuria scabra*) Obtained Through Dialysis and Ultrafiltration Membrane*

TRACK B: Energy & Catalysis I

Chairman: Dr. Siti Kholijah Binti Abdul Mudalip

- 11.00 – 11.15 **Mr. Mohd Zulkifli Mohamad Noor (Universiti Malaysia Pahang)**
Foam Stability Using Silica Coated Nanoparticle for Enhanced Oil Recovery
- 11.15 – 11.30 **Dr. Zhoufeng Bian (Southeast University, China)**
Study on regime of reaction, convection and H₂ permeation in a membrane reactor with CFD simulation
- 11.30 – 11.45 **Mr. Tanawut Boonamnuay (Chulalongkorn University, Thailand)**
Multifunctional catalyst of Cu/ZnO and molecular sieve for low temperature CO₂ conversion to methanol.
- 11.45 – 12.00 **Mr. Attili Ramkiran (Universiti Malaysia Pahang)**
Syngas production from ethanol dry reforming by La_{1-x}K_xCuO₃ perovskite: the effect of promoter

- 12.00 – 12.15 **Dr. Md. Wasikur Rahman (Jashore University of Science and Technology, Bangladesh)**
Catalytic Role of Binary Oxides on Hydrogen Storage in MgH₂
- 12.15 – 12.30 **Ms. Mythili Thangavel (Universiti Malaysia Pahang)**
Cross metathesis of plant oil-a mini review on reaction conditions and catalysis
- 12.30 – 12.45 **Ms. Hybat Abdlrhman (Universiti Malaysia Pahang)**
Factors Affecting Biogas Production by IUMAS Methods for Palm Oil Mill Effluent (POME) Treatment

TRACK C: Advanced in Chemical Engineering I
Chairman: Assoc. Prof. Ts. Dr. Sunarti Binti Abd Rahman

- 11.00 – 11.15 **Ms. Triveni Soubam (Universiti Malaysia Pahang)**
Effect of glyoxal as cross-linking agent for the development of bio-adhesive using rice starch-natural rubber latex (NRL) for wood composite
- 11.15 – 11.30 **Dr. Nazlee Ghazali (Universiti Teknologi Malaysia)**
Recovery of Saccharides from Lignocellulosic Hydrolysates using Membranes: A review
- 11.30 – 11.45 **Dr. Paweena Prapainainar (Kasetsart University, Thailand)**
Properties of natural rubber reinforced with nano cellulose from pineapple leave agriculture waste
- 11.45 – 12.00 **Dr. Hideaki Katogi (Jissen Women's University, Japan)**
Spinning and biodegradable behavior of cuprammonium rayon using coffee ground
- 12.00 – 12.15 **Dr Rozaimi Abu Samah (Universiti Malaysia Pahang)**
Characterization of adsorbent from pineapple peel waste for adsorption of Fe(III)
- 12.15 – 12.30 **Ms. Nurmaryam Aini Hashim (Universiti Malaysia Pahang)**
Microencapsulation of fish oil using spray-drying technique: a mini review
- 12.30 – 12.45 **Mrs. Bincy Lathakumary Vijayan (Universiti Malaysia Pahang)**
Advancing capacitance and voltage window of waste biomass activated supercapacitive carbon electrodes via in situ encapsulation of ceramic nanoparticles

TRACK D: Water & Environmental Engineering I
Chairman: Assoc. Prof. Ir. Dr. Norazwina Binti Zainol

- 11.00 – 11.15 **Mrs. Siti Mazatul Azwa Saiyed Mohd Nurddin (Universiti Teknologi Petronas)**
Effective removal of methylene blue using high-porosity geopolymer-sodium alginate beads

- 11.15 – 11.30 **Mr. Aiban Abdulhakim Saeed Ghaleb (Universiti Teknologi PETRONAS)**
Anaerobic co-digestion for oily-biological sludge with sugarcane bagasse for biogas production under mesophilic condition
- 11.30 – 11.45 **Dr. Raihan Mahirah Ramli (Universiti Teknologi PETRONAS)**
Visible light assisted degradation of BMIMCL contaminated wastewater using Cu-TiO₂/AC catalyst
- 11.45 – 12.00 **Dr. Quentin Cheok (Universiti Brunei Darussalam, Brunei)**
*Investigation of carbonization process parameters to manage Japanese knotweed (*Fallopia japonica*) in the UK*
- 12.00 – 12.15 **Mr. Najib Mohammed Yahya Al Mahbashi (Universiti Teknologi PETRONAS)**
Column study for removal of colour from batik printing effluent using wastewater sludge carbon
- 12.15 – 12.30 **Mr. Mohd Arif (Universiti Teknologi Malaysia)**
An optimal water regeneration, reuse, and resource recovery network integrating domestic and industrial sources

TRACK E: Process Control & Simulation I
Chairman: Dr. Noorlisa Binti Harun

- 11.00 – 11.15 **Dr. Norliza Abd.Rahman (Universiti Kebangsaan Malaysia)**
Predicting water quality control using artificial neural network and neural fuzzy network
- 11.15 – 11.30 **Mr. Varun Geetha Mohan (Universiti Malaysia Pahang)**
A Neural Network based predictive algorithm for electrolysis parameters in petrochemical waste water treatment
- 11.30 – 11.45 **Mr. Khairulnadzmi Jamaluddin (Universiti Teknologi Malaysia)**
Performance of centralised trigeneration plant on sensitivity analysis of total site system
- 11.45 – 12.00 **Mr. Ahmad Nafees (Universiti Malaysia Pahang)**
A parametric study of solid oxide fuel cell systems using SIMULINK
- 12.00 – 12.15 **Mr. Ahmad Nafees (Universiti Malaysia Pahang)**
A simplified study of solid oxide fuel cell system using MATLAB
- 12.15 – 12.30 **Ms. Hybat Abdelrhman (Universiti Malaysia Pahang)**
Factors affecting biogas production by IUMAS methods for palm oil mill effluent (POME) treatment using RSM
- 12.30 – 12.45 **Dr. Nur Izyan Zulkafli (Universiti Teknikal Malaysia Melaka)**
Optimum scheduling of air compressors network under different electricity tariffs

KEYNOTE SESSION II

14.30 – 15.15

Keynote 3 (online streaming)

<https://meet.google.com/nde-xjrj-ojy>

Title: Carbon-supported catalysts for sustainable biorefinery in water

Professor Dr. Dan. C. W. Tsang

(The Hong Kong Polytechnic University)

Chairperson: Assoc. Prof. Dr. Cheng Chin Kui

Parallel Session 2

TRACK A: Food & Biotechnology II

Chairman: Dr Chew Few Ne

15.15 – 15.30

Prof. Dr. Andri Cahyo Kumoro (Universitas Diponegoro, Indonesia)

*Microbiologically assisted extraction of pectin from banana (*Musa Acuminata X Balbisiana*) peel waste using crude enzyme secreted insitu by *Aspergillus niger**

15.30 – 15.45

Mr. Mohd Aiman Hamdan (Universiti Malaysia Pahang)

Tuning mechanical properties of seaweeds for hard capsules: a step forward for a sustainable drug delivery medium

15.45 – 16.00

Mr. Mohamad Sufian So'aib (Universiti Teknologi MARA)

*Spontaneous fermentation as a tool to enhance the phenolic contents, antioxidant activity and cultivation of lactic acid bacteria of *Carica papaya* leaf*

16.00 – 16.15

Dr. Maneerat Khemkhao (Rajamangala University of Technology Rattanakosin, Thailand)

Process performance and microbial community change in anaerobic reactor with a step temperature increase to thermophilic temperature

16.15 – 16.30

Mrs. Wan Nadja Julika (Universiti Malaysia Pahang)

The effect of storage condition on ph and hydroxymethylfurfural (hmf) of some stingless bee honey collected in malaysia local market

16.30 – 16.45

Dr Nasratun Masngut (Universiti Malaysia Pahang)

Xylanase enzyme production with ultrasonic assisted fermentation

16.45 – 17.00

Dr. Wan Mohd Hafizuddin Wan Yussof (Universiti Malaysia Pahang)

Optimization of enzymatic hydrolysis from nitric acid pretreated oil palm frond bagasse for xylooligosaccharides production

17.00 – 17.15

Dr. Hui Yin Fan (Universiti Malaysia Sabah)

Evaluation of sodium alginate and fish gelatin blend for the encapsulation of virgin coconut oil

17.15 – 17.30

Mrs. Zulaikha Sarobo (Universiti Teknologi Malaysia)

Effect of Pre-treatment on the Physicochemical Properties of Freeze Dried Slice Pineapple

TRACK B: Energy & Catalysis II
Chairman: Dr. Asmida Binti Ideris

- 15.15 – 15.30 **Dr Izirwan Izhab (Universiti Malaysia Pahang)**
Catalytic cracking of castor oil via microwave assisted method
- 15.30 – 15.45 **Dr Bamidele Victor Ayodele (Universiti Tenaga Nasional)**
Elucidating the non-linear effect of process parameters on hydrogen production by catalytic methane reforming: an artificial intelligent approach
- 15.45 – 16.00 **Ms. Yasmeen Hafiz Zaki (Universiti Malaysia Pahang)**
The Performance of Ultrasonic-Assisted Membrane Anaerobic System (UMAS) in Treatment of Sugarcane Mill Effluent (SCME)
- 16.00 – 16.15 **Dr Woon Chan Chong (Universiti Tunku Abdul Rahman)**
Photocatalytic degradation of organic pollutants under visible light using carbon dot/titanium dioxide nanohybrid
- 16.15 – 16.30 **Ms. Yi Ding Chai (Universiti Tunku Abdul Rahman)**
Sonocatalytic degradation of congo red using biomass-based cellulose/TiO₂ powder
- 16.30 – 16.45 **Ms. Ainul Farhani Ahmad Nizam (Universiti Malaysia Pahang)**
Residence time of free fatty acid formation in oil palm fruits
- 16.45 – 17.00 **Mrs. Zairitah Johanis Johan (Institut Teknologi Petroleum PETRONAS)**
Parametric sensitivity analysis of the separation process for butanol production

TRACK C: Advanced in Chemical Engineering II
Chairman: Dr. Nurul Aini Binti Mohamed Razali

- 15.15 – 15.30 **Mr. Janifal Alipal (Universiti Tun Hussein Onn Malaysia)**
A review of surface modification of titanium and its alloys for biomedical applications
- 15.30 – 15.45 **Mrs. Nurhamizah Ibrahim (Universiti Malaysia Pahang)**
Microwave-assisted extraction of β -sitosterol from waste cocoa shells
- 15.45 – 16.00 **Dr. Ngoc Thang Nguyen (Hanoi University of Science and Technology, Vietnam)**
Green Synthesis, Characterization and Antibacterial Activity of Silver Nanoparticles Using Sapindus Mukorossi Fruit Pericarp Extract
- 16.00 – 16.15 **Ms. Amornrat Sangjan (Mahidol University, Thailand)**
One-pot synthesis and passivation of fluorescent carbon dots derived from oil palm empty fruit bunch
- 16.15 – 16.30 **Dr. Mohd Azmir Arifin (Universiti Malaysia Pahang)**
Optimization of ultraviolet/ozone (UVO₃) process conditions for the preparation of gelatin coated polystyrene (PS) microcarriers

16.30 – 16.45 **Mr. Hau Quoc Pham (Ho Chi Minh City of Technology, VNU, Vietnam)**
Bimetallic Platinum-Iridium Alloy Anchored On Tungsten-incorporated TiO₂ Nanoparticles for Improving the Activity of Alcohol Electro-oxidation Reaction in Acidic Media

16.45 – 17.00 **Ms. Amornrat Sangjan (Mahidol University, Thailand)**
One-pot synthesis and passivation of fluorescent carbon dots derived from oil palm empty fruit bunch

TRACK D: Advanced in Chemical Engineering III
Chairman: Ts. Dr. Noor Sabrina Binti Ahmad Mutamim

15.15 – 15.30 **Prof. Dr. Abdurahman Nour (Universiti Malaysia Pahang)**
The performance evaluation of heavy crude oil-in-water (O/W) emulsions stabilized by Sunflower surfactant NS -19-1 for pipeline transportation

15.30 – 15.45 **Dr. Sara Shahrudin (PETRONAS Research Sdn Bhd)**
Computed assisted study on phase change behaviour of waxes and additives for wax inhibition in crude oils

15.45 – 16.00 **Ms. Nur Amalina Samsudin (PETRONAS Research Sdn Bhd)**
Kinetics study on glycosylation reaction of carbohydrate-based surfactant alkyl polyglucoside

16.00 – 16.15 **Dr. Jun Xing Leong (PETRONAS Research Sdn Bhd)**
Optimisation of reaction parameters for glycosylation process using response surface methodology

16.15 – 16.30 **Mr. Bayu Maulida (Universitas Gadjah Mada, Indonesia)**
Dynamic Study of CO₂/CH₄ Separation using Palm Kernel Shell-Based Carbon Molecular Sieve

16.30 – 16.45 **Dr. Mohd Bijarimi Mat Piah (Universiti Malaysia Pahang)**
Green Bio-based PLA with Waste Tyre and Graphene Nanocomposites

16.45 – 17.00 **Dr. Mohd Shaiful Zaidi Mat Desa (Universiti Malaysia Pahang)**
The evaluation of optimum graphene nanoplatelets content in polylactic acid

TRACK E: Food & Biotechnology III
Chairman: Dr. Ruwaida Abdul Rasid

15.15 – 15.30 **Mr. Muhammad Norzaman Kathiman (Universiti Malaysia Pahang)**
Effect of Encapsulation Agent on Antioxidant Activity and Moisture Content of Spray Dried Mahkota Dewa Fruit Extract

15.30 – 15.45 **Dr. Wan Mohd Hafizuddin Wan Yussof (Universiti Malaysia Pahang)**
Lignocellulosic biomass to xylooligosaccharides: current production strategies

15.45 – 16.00 **Dr. Mohd Azmir Arifin (Universiti Malaysia Pahang)**
Piper betle: a review on bioactive compound, pharmacological properties, extraction process, applications, quality and safety

- 16.00 – 16.15 **Dr. Sharifah Sopliah Syed Abdullah (Universiti Kuala Lumpur)**
Fresh oil palm frond juice as a novel and alternative fermentation medium for bacterial cellulose production
- 16.15 – 16.30 **Mrs. Siti Nor Azlina Abd Rashid (Innovation Center in Agritechology for Advanced Bioprocessing, UTM Pagoh)**
Carotenoids and antioxidant activity in virgin palm oil (VPO) produced from palm mesocarp with low heat aqueous-enzyme extraction techniques
- 16.30 – 16.45 **Dr. Hatijah Mortan (Universiti Malaysia Pahang)**
*Effect of Inoculum Size and Glucose Concentration for Bacterial Cellulose Production by *L.acidophilus**
- 16.45 – 17.00 **Mr. Janifal Alipal (Universiti Tun Hussein Onn Malaysia)**
A review of gelatin: properties, sources, applications, and commercialization
- 17.00 – 17.15 **Dr. Jau Shya Lee (Universiti Malaysia Sabah)**
Effects of annealing on the properties of gamma irradiated sago starch

Day 2	11 August 2020
Time	Programme
KEYNOTE SESSION III	

09.00 am – 09.45 am

Keynote 4 (prerecorded video)

<https://meet.google.com/pgy-yvnf-hns>

Title: Sustainability through technical process optimization

Mr. Kiran Gheesulal Parihar
(Senior Manager, BASF)

Chairperson: Dr. Aainaa Izyan Binti Nafsun

10.00 am – 10.45 am

Keynote 5 (online streaming)

<https://meet.google.com/ksx-cysw-mhb>

Title: Considering the ageing of membrane processes in water and wastewater treatment and recycling

Assoc. Professor Pierre Le Clech
(University of New South Wales, Sydney, Australia)

Chairperson: Assoc. Prof. Dr. Cheng Chin Kui

Parallel Session 3

TRACK A: Food & Biotechnology IV

Chairman: Assoc. Prof. Ir. Dr. Norazwina Binti Zainol

- 10.45 - 11.00 **Dr. Hazwani Suhaimi (Universiti Brunei Darussalam, Brunei)**
Estimating Glucose Diffusion Coefficient of Membranes for Tissue Engineering Applications
- 11.00 - 11.15 **Mrs. Noor Raihana Abu Sepian (Universiti Malaysia Pahang)**
*Enhancement of cell density and characterization of *Chlorella vulgaris* immobilized within beads for lipid production*
- 11.15 - 11.30 **Mrs. Sweeta Akbari (Universiti Malaysia Pahang)**
LC-QTOF-MS analysis of saponin and phenolic bioactive compounds extracted from aloe vera leaves
- 11.30 - 11.45 **Dr. Oluwaseun Ruth Alara (Universiti Malaysia Pahang)**
*Microwave-enhanced extraction of phenolics from *Carica papaya* leaves: screening, optimization study and phytochemical analysis*
- 11.45 - 12.00 **Dr. Oluwaseun Ruth Alara (Universiti Malaysia Pahang)**
*Influence of microwave extractor parameters on the recovery of oil from *Carica papaya* LEAVES*
- 12.00 - 12.15 **Mr. Mohamed Saad Bala Husain (Universiti Malaysia Pahang)**
PVA/PVP/ starch-based keratin hydrogel for wound dressing applications
- 12.15 - 12.30 **Mr. Ebenezer Oluwasola (Universiti Sains Malaysia)**
Micro nutrients and antioxidants quality evaluation of developed instant Zero "Zobo" drink for A Diabetics
- 12.30 - 12.45 **Mrs. Sulaiha Ali (Universiti Putra Malaysia)**
Thermogravimetric analysis and kinetics of six Malaysian wood
- 12.45 - 13.00 **Mrs. Nurul Adela Bukhari (Malaysian Palm Oil Board (MPOB) & Universiti Kebangsaan Malaysia (UKM))**
Biomass pretreatment with oxalic acid and its effect on enzymatic digestibility and fermentability
- 13.00 - 13.15 **Mr. Mohamad Azri Sukiran (Malaysian Palm Oil Board)**
Extraction of phenolic compounds from bio-oil produced by pyrolysis of oil palm biomass

TRACK B: Energy & Catalysis III

Chairman: Assoc. Prof. Ts. Dr. Sunarti Binti Abd Rahman

- 10.45 - 11.00 **Ms. Thurga Devi Munusamy (Universiti Malaysia Pahang)**
Physio and electrochemical characterization of g-C₃N₄/CdO nanocomposite for the photoreforming of petrochemical wastewater
- 11.00 - 11.15 **Dr. Nabila A. Karim (Universiti Kebangsaan Malaysia)**
Glycerol electro-oxidation reaction on the surface of PdAu alloy catalyst

- 11.15 – 11.30 **Dr. Jurarat Nisamaneenate (Chulalongkorn University, Thailand)**
A modeling-based study on agricultural waste conversion with a modular gasifier for fuel and power generation
- 11.30 – 11.45 **Dr. Xingyuan Gao (Guangdong University of Education, China)**
Steam reforming of toluene as tar model molecule produced during biomass gasification over Ni-based catalysts
- 11.45 – 12.00 **Mrs. Nurul Atiqah Izzati Md Ishak (Institut SELFUEL, UKM)**
Effect of Green Chemical Reduction of Platinum Nanoparticles as Environmentally Benign Robust Electrocatalyst in Direct Methanol Fuel Cell and Its Profiling Metabolites and Antioxidant Evaluation
- 12.00 – 12.15 **Dr. Ahmmad Shukrie (Universiti Malaysia Pahang)**
Combustion Characteristics of Biogas Flame from Palm Oil Mill Effluent (POME) at Variable Equivalence Ratio
- 12.15 – 12.30 **Dr. Thongthai Witoon (Kasetsart University, Thailand)**
CO₂ hydrogenation to light olefins over M (V, Mn, Cu, Zn, Co)-Fe/K-Al₂O₃ Catalysts
- 12.30 – 12.45 **Dr. Supacharee Roddecha (Kasetsart University, Thailand)**
The wide range detection glucose sensor based on the 3D electrospun polyaniline-polyvinyl alcohol/Urushibara Ni catalyst nanocomposite fibers depositing on the Ni foam
- 12.45 – 13.00 **Ms. Phatchayada Khamhaeng (Chulalongkorn University, Thailand)**
Techno-economic analysis of hydrogen production from dehydrogenation and steam reforming of ethanol for used in carbon dioxide conversion to methanol
- 13.00 – 13.15 **Ms. Viga Rajiman (Universiti Malaysia Perlis)**
Effect of CO₂ Concentrations and Liquid to Gas Ratio on CO₂ Absorption From Simulated Biogas Using Monoethanolamine solution

TRACK C: Advanced in Chemical Engineering IV
Chairman: Assoc. Prof. Dr. Sumaiya Binti Zainal Abidin

- 10.45 - 11.00 **Dr. Rasha Sheltami (University of Benghazi, Libya)**
*Biomass from *Leucaena leucocephala* tree for removal chromium (III)*
- 11.00 – 11.15 **Ms. Nor Hafiza Ismail (Universiti Teknologi Malaysia)**
Effect Of Various Operating Parameters Towards The PvdF/Hmo Membrane
- 11.15 – 11.30 **Mrs. Nurafiqah Rosman (Universiti Teknologi Malaysia)**
Experimental study on ibuprofen removal using photocatalytic PVDF-ZnO/Ag₂CO₃/Ag₂O composite membrane in submerged membrane photoreactor
- 11.30 – 11.45 **Ms. Vikneswary Rajendaren (Universiti Malaysia Pahang)**
Effect of membrane thickness on the performance of supported liquid membrane for levulinic acid extraction

- 11.45 – 12.00 **Mr. Apised Suwansaard (Rajamangala University of Technology Rattanakosin, Thailand)**
A comparative study of recycled plastic waste for plastering mortar
- 12.00 – 12.15 **Mr. Mohd Jumain Jalil (Universiti Teknologi MARA)**
Production of dihydroxystrearcic acid (dhsa) based on optimum process parameters of epoxidized palm oil-derived oleic acid (EPOOA)- selectivity, characterization and optimization of kinetics modeling
- 12.15 – 12.30 **Ms. Xin Ying Lee (Universiti Teknologi PETRONAS)**
Synthesis and Characterization of MSU-2 for CO₂ Adsorption.
- 12.30 – 12.45 **Ms. Fiona Ling Wang Ming (Centre of Excellence for Advanced Research in Fluid Flow (CARIFF))**
Effect of micromixing on the silica nanoparticles synthesis and characteristics
- 12.45 – 13.00 **Ms. Nurul Farhana Abu Kasim (Universiti Malaysia Pahang)**
Mechanical and electrical properties of PVA/conductive ink nanocomposite.
- 13.00 – 13.15 **Dr. Nawzat Aljbour (Universiti Malaysia Pahang)**
Fabrication of blended chitosan nanofibers by the free surface wire electrospinning.
- 13.15 – 13.30 **Mr. Apised Suwansaard (Rajamangala University of Technology Rattanakosin, Thailand)**
A comparative study of recycled plastic waste for plastering mortar

TRACK D: Water & Environmental Engineering II
Chairman: Dr. Zulkifly Jemaat

- 10.45 - 11.00 **Dr. Carolyn Payus (Universiti Malaysia Sabah)**
Durian peel wastes as low cost adsorbent for water pollutants removal
- 11.00 – 11.15 **Ms. Siti Zu Nurain Ahmad (Universiti Teknologi Malaysia)**
Operating parameters of cadmium removal process using graphene oxide modified zeolitic imidazolate framework-8 for wastewater treatment
- 11.15 – 11.30 **Dr. Cevat Yaman (Imam Abdulrahman Bin Faisal University, Saudi Arabia)**
Management of medical waste and associated greenhouse gas emissions-a case study
- 11.30 – 11.45 **Mr. Tanapong Ouppatampanon (Chulalongkorn University, Thailand)**
Effect of Organic Loading Rate on the Performance of Non-Recirculation Anaerobic Fluidized Bed Reactor under low Hydraulic Retention Time
- 11.45 – 12.00 **Dr. Vichai Domrongpukkaphan (King Mongkut's University of Technology North Bangkok, Thailand)**
Enhancement of anaerobic palm oil mill effluent digestion by zero valent iron addition
- 12.00 – 12.15 **Mrs. Rabiatul Manisah Mohamed (University College TATI)**
Adsorption of heavy metals via banana peel bioadsorbent

- 12.15 – 12.30 **Dr. Nadzirah Mohd Mokhtar (Universiti Malaysia Pahang)**
Study on the zeta potential effect of Artocarpus heterophyllus natural-based coagulant in wastewater treatment
- 12.30 – 12.45 **Prof. Rasha El Gohary (National Water Research Center , and El Gezera Higher Institute for Engineering and Technology, Egypt)**
Visible light photocatalytic properties of NaYF₄:(Yb, Er)-CuO/TiO₂ Composite
- 12.45 – 13.00 **Dr. Prangtip Kaewpengkrow (Rattanakosin College for Sustainable Energy and Environment, Thailand)**
Co-pelletization of Industrial sewage sludge and biomass

TRACK E: Process Control & Simulation II

Chairman: Assoc. Prof. Dr. Ruwaida Abdul Rasid

- 10.45 - 11.00 **Dr. Pg Emeroylariffion Abas (Universiti Brunei Darussalam, Brunei)**
Performance Of Low Cost Global Positioning System (GPS) Module In Location Tracking Device
- 11.00 – 11.15 **Mr. Dinie Muhammad (Universiti Sains Malaysia)**
Production of edible fungal (Rhizopus delemar CBS 145940) biomass from organosolv pretreated oil palm empty fruit bunch (OPEFB) in submerged fermentation
- 11.15 – 11.30 **Dr. Jarinah Mohd Ali (Universiti Kebangsaan Malaysia)**
Fuzzy mamdani based user-friendly interface for food preservatives determination
- 11.30 – 11.45 **Mr. Tahir Sultan (Universiti Teknologi PETRONAS)**
Plant-wide mpc control scheme for CO₂ absorption/stripping system
- 11.45 – 12.00 **Dr. Wan Nurdiyana Wan Mansor (Universiti Malaysia Terengganu)**
One dimensional modeling of a diesel-natural gas dual fuel engine
- 12.00 – 12.15 **Mr Jesse Lee Kar Ming (Universiti Putra Malaysia)**
Optimization of Neural Network Weights using Hybrid Method of Genetic Search Algorithm and RSM: Application to Spray Drying of Coconut Milk

Parallel Session 4

TRACK A: Food & Biotechnology V

Chairman: Assoc. Prof. Dr. Azilah Binti Ajit @ Abd Aziz

- 14.00 – 14.15 **Mrs. Norliza Abdul Latiff (Universiti Putra Malaysia)**
Study of the influence of drying temperature on the phenolics, antioxidants and morphology for development of drying kinetics of Cosmos caudatus (CC)
- 14.15 – 14.30 **Mr. Shu Khang Yap (Universiti Putra Malaysia)**
Multivariate Study on Physicochemical Properties and Bacterial Profiles of Malaysian Honeys

- 14.30 – 14.45 **Dr. Ria Millati (Universitas Gadjah Mada, Indonesia)**
*Production of edible fungal (*Rhizopus delemar* CBS 145940) biomass from organosolv pretreated oil palm empty fruit bunch (OPEFB) in submerged fermentation*
- 14.45 – 15.00 **Mr. Thanh Tran (Nguyen Tat Thanh University, Vietnam)**
*Preliminary study to investigate cellulose biodegradability of *Bacillus - Aspergillus* and *Neurospora crassa* on cassava peel (*Manihot esculenta*)*
- 15.00 – 15.15 **Dr. Noor Akhmazillah Mohd Fauzi (Universiti Tun Hussein Onn Malaysia)**
Reduction in moisture content of dehumidified and microwave-heated stingless bee honey and its quality
- 15.15 – 15.30 **Mrs. Norazlina Hashim (TATI University College)**
A study of neem leave: identification of method and solvent in optimisation of extract
- 15.30 – 15.45 **Dr. Nurul Aini Mohd Azman (Universiti Malaysia Pahang)**
Effect of active packaging films (SRC/G/TP/CNFs) on meat patties shelf life
- 15.45 – 16.00 **Ms. Nur Liyana Mohd Izan (Universiti Putra Malaysia)**
Mycelium-based biofoam as a sustainable alternative to expanded polystyrene foam
- 16.00 – 16.15 **Ms. Chayanee Boontun (King Mongkut's University of Technology North Bangkok, Thailand)**
Medium Modification for Fermentation of *Bifidobacterium animalis* in Bioreactor
- 16.15 – 16.30 **Mr. Muhammad Faizi (Universiti Malaysia Pahang)**
Simultaneous saccharification and fermentation (SSF) process : influence of pretreatment condition and enzyme/yeast loading on glucose concentration
- 16.30 – 16.45 **Dr. Noraziah Abu Yazid (Universiti Malaysia Pahang)**
Effect of Type of Nitrogen Sources and Concentration on Protease Production: Fish Waste Hydrolysate as a Potential Low-Cost Source
- 16.45 – 17.00 **Dr. Shalyda Md Shaarani (Universiti Malaysia Pahang)**
Effects of chemical hydrolysis operating parameters on the production of antioxidant from fish waste
- 17.00 – 17.15 **Ms. Wan Amnin Wan Yahya (Universiti Malaysia Pahang)**
Characterization on Different Treatments of Carrageenan Reinforced With Cellulose Nanofiber as Biocomposite films

TRACK B: Energy & Catalysis IV
Chairman: Dr. Asmida Binti Ideris

- 14.00 – 14.15 **Ms. Amporn Kuntinuguntanon (Kasetsart University, Thailand)**
The bi-acidic functional solid acid catalyst derived from palm oil empty fruit bunch for 5-hydroxy methylfufural production
- 14.15 – 14.30 **Ms. Nor Shafiqah Mohd Nasir (Universiti Malaysia Pahang)**
Effective combination of metal-support for bimetallic catalysts system in ethanol and glycerol reforming: A review
- 14.30 – 14.45 **Mrs. Anis Farhana Abdul Rahman (Universiti Teknologi Malaysia)**
Chlorophyll-A adsorbed TiO₂ nano particles for extending photocatalytic applications in visible regio
- 14.45 – 15.00 **Ms. Nurul Asmawati Roslan (Universiti Malaysia Pahang)**
Extraction of γ -alumina from aluminum dross as a catalyst support in the glycerol dry reforming reaction
- 15.00 – 15.15 **Mr. Sk. Shahriar Bin Rasul (Jashore University of Science & Technology, Bangladesh)**
Characterization of liquid fuel oil produced by thermal cracking from medical-based plastic waste
- 15.15 – 15.30 **Dr. Prangtip Kaewpengkrow (Rattanakosin College for Sustainable Energy and Environment, Thailand)**
Co-pelletization of Industrial sewage sludge and biomass
- 15.30 – 15.45 **Dr. Herma Dina Setiabudi (Universiti Malaysia Pahang)**
Bimetallic co-based catalysts for carbon dioxide reforming of methane: a review
- 15.45 – 16.00 **Dr. Suhaila Abdullah (TATI University College)**
Parametric Investigation and Optimization of Passive Direct Ethanol Alkaline Fuel Cells
- 16.00 – 16.15 **Mr. Mohammad Yusuf (Universiti Teknologi PETRONAS)**
A short review on contemporary trends in CO₂ reforming of methane
- 16.15 – 16.30 Mrs. Nurul Ain Mohd Haridan (Universiti Putra Malaysia)
Carbonization of excess sewage sludge by using super-heated water vapor to make fuel
- 16.30 – 16.45 **Ms. Nur Aqilah Mohd Razali (Universiti Teknologi Malaysia)**
Photodegradation of palm oil mill effluent using wo 3 as energy storage material (ESM) under visible light: effect of calcination temperature
- 16.45 – 17.00 **Dr. Muhammad Saifullah Abu Bakar (Universiti Brunei Darussalam, Brunei)**
Thermochemical Characterization of Invasive Axonopus compressus Grass as a Renewable Energy Source

17.00 – 17.15 **Dr. Vichai Domrongpokkaphan (King Mongkut's University of Technology North Bangkok, Thailand)**
Enhancement of anaerobic palm oil mill effluent digestion by zero valent iron addition

TRACK C: Advanced in Chemical Engineering V
Chairman: Dr. Nurul Aini Binti Mohamed Razali

14.00 – 14.15 **Dr. Paweena Prapainainar (Kasetsart University, Thailand)**
Formaldehyde release from 2-[(hydroxymethyl) amino] ethanol used as alternative preservative substance in natural rubber latex

14.15 – 14.30 **Dr. Supacharee Roddecha (Kasetsart University, Thailand)**
Pineapple Leaf Fibers (PALF) as the Sustainable Carbon Anode Material for Lithium-Ion Batteries

14.30 – 14.45 **Ms. Zykamilia Kamin (Universiti Malaysia Sabah)**
Evaluation of Linear Driving Force Mass Transfer Coefficient for Dynamic Adsorption Process in Packed Bed Column

14.45 – 15.00 **Dr. Raihana Edros (Universiti Malaysia Pahang)**
The effects of concentration ratios on the particle size of CHI-ALG/ CaCl₂ nanocarriers

15.00 – 15.15 **Dr. Anusorn Seubsai (Kasetsart University, Thailand)**
Modification of pineapple leaves fiber as a hydrogen sulfide adsorbent

15.15 – 15.30 **Dr. Anusorn Seubsai (Kasetsart University, Thailand)**
Modification of pineapple leaf fiber as lead ion adsorbents

15.30 – 15.45 **Ms. Stasha Eleanor Rosland Abel (Malaysian Palm Oil Board)**
Effect of carbonization temperature on biochar properties and labile carbon derived from empty fruit bunch cellulose

15.45 – 16.00 **Ms. Nur Fatihah Tajul Arifin (Universiti Teknologi Malaysia)**
Rice husk derived graphene-like material using phosphoric acid as activating agent for hydrogen gas storage

16.00 – 16.15 **Dr. Setia Budi (Universitas Negeri Jakarta, Indonesia)**
Electrodeposition and the electrochemical properties of polyaniline/NiO film

16.15 – 16.30 **Dr. Mohd Shafiq Mohd Sueb (Universiti Malaysia Pahang)**
Dilute acid hydrolysis pretreatment for sugar and organic acid production from pineapple residues

16.30 – 16.45 **Mr. Basem Saeid M Elarbe (Universiti Malaysia Pahang)**
Effect of Synthesis Different Condition of SA-Co-BA Copolymer for Improving The Flowability of Malaysian Crude Oil

16.45 – 17.00 **Mr. Ibrahim Elganidi (Universiti Malaysia Pahang)**
Synthesis of novel terpolymer of (ba-co-sma-co-ma) as pour point depressants to improve the flowability of the Malaysian crude oil

17.00 – 17.15

Mr. Janifal Alipal (Universiti Tun Hussein Onn Malaysia)

Synthesis of eggshell derived hydroxyapatite via chemical precipitation and calcination method

17.15 – 17.30

Dr. Alinda Samsuri (Universiti Pertahanan Nasional Malaysia)

Influence of chromium on the reduction behaviour of molybdenum oxide in carbon monoxide atmosphere

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