

**The 4<sup>th</sup> International Conference on Global Sustainability & Chemical Engineering (ICGSCE)  
2018  
Pullman Kuala Lumpur Bangsar Hotel  
5-6 September 2018**

**CONFERENCE PROGRAMME**

<b>TIME</b>	<b>DAY 1: 5 SEPTEMBER 2018 (Wednesday)</b>
<b>Opening Ceremony (Pullman Ballroom 2), Level 2</b>	
08:00 – 09:00	<b>Registration &amp; Guest Arrival</b>
09:00 – 09:05	<b>National Anthem &amp; Recital of Doa</b>
09:05 – 09:15	<b>Speech by Professor Dr. Norazah Abd. Rahman</b> Honorary Chair ICGSCE <b>Dean, Faculty of Chemical Engineering</b> <b>Universiti Teknologi MARA</b>
09:15 – 09:25	<b>Speech by Professor Ir. Dr. Nasrudin Abd. Rahim</b> Honorary Chair CEAT <b>Director UMPEDAC</b> <b>University of Malaya</b>
09:25 – 09:45	<b>Officiating Speech &amp; Conference Launching</b> <b>Professor Dr. Noorsaadah Abd. Rahman</b> <b>Deputy Vice-Chancellor (Research &amp; Innovation)</b> <b>University of Malaya</b>
09:45 – 10:00	<b>Coffee Break (Foyer Ballroom), Level 2</b>
10:00 – 10:45	<b>Keynote 1: Professor Hirofumi Akagi</b> <b>Tokyo Institute of Technology, Japan</b> <i>Trends in Power Electronics for High-Power Applications</i>
10:45 – 11:30	<b>Keynote 2: Professor Jun Xiang</b> <b>Huazhong University of Science and Technology, China</b> <i>Some Progresses in Coal Structure and Combustion Characteristics</i>
11:30 – 11:45	<b>Networking Session</b>
11:45 – 12:15	<b>Keynote 3: Y. Bhg. Dato' Professor Ir. Dr. Abdul Wahab Mohammad</b> <b>Universiti Kebangsaan Malaysia</b> <i>Nanomaterials in water and wastewater treatment: Performance and impact</i>
12:15 – 12:45	<b>Keynote 4: Professor Song Hu</b> <b>Huazhong University of Science and Technology, China</b> <i>Tar Decomposition on Ni-based Catalyst to Generate High Purified Hydrogen and CNTs</i>
12:45 – 14:00	<b>Lunch (Link), Level G</b>

**ICGSCE Conference Parallel Sessions (5-6 September 2018)**

<b>DAY 1 – 5 September 2018 (Wednesday)</b>		
<b>Time</b>	<b>Room: Studio 6, Level 3</b>	<b>Room: Studio 7, Level 3</b>
	<b>Session 1A –Chairperson:</b> AP. Dr. Yi Wang (HUST)	<b>Session 1B – Chairperson:</b> Dr. Ban Zhen Hong (XMU)
14:00 – 14:20	ICGSCE2018-017	ICGSCE2018-059
14:20 – 14:40	ICGSCE2018-015	ICGSCE2018-020
14:40 – 15:00	ICGSCE2018-023	ICGSCE2018-025
15:00 – 15:20	ICGSCE2018-045	ICGSCE2018-033
15:20 – 15:40	ICGSCE2018-026	ICGSCE2018-040
15:40 – 16:00	<b>Coffee Break (Foyer Studio), Level 3</b>	
<b>Time</b>	<b>Session 1C –Chairperson:</b> Dr. Yeong Yin Fong (UTP)	<b>Session 1D –Chairperson:</b> Dr. Ruwaida Abdul Rasid (UMP)
16:00 – 16:20	ICGSCE2018-055	ICGSCE2018-008
16:20 – 16:40	ICGSCE2018-061	ICGSCE2018-002
16:40 – 17:00	ICGSCE2018-051	ICGSCE2018-004
17:00 – 17:20	ICGSCE2018-007	ICGSCE2018-009
17:20 – 17:40	ICGSCE2018-053	ICGSCE2018-027

<b>DAY 2 – 6 September 2018 (Thursday)</b>		
<b>Time</b>	<b>Room: Studio 6, Level 3</b>	<b>Room: Studio 7, Level 3</b>
	<b>Session 2A –Chairperson:</b> Dr. Erfan Mohammadian (UiTM)	<b>Session 2B –Chairperson:</b> Dr. Norin Zamiah Kassim Shaari (UiTM)
09:00 – 09:20	ICGSCE2018-019	ICGSCE2018-052
09:20 – 09:40	ICGSCE2018-036	ICGSCE2018-005
09:40 – 10:00	ICGSCE2018-049	ICGSCE2018-029
10:00 – 10:20	ICGSCE2018-001	ICGSCE2018-030
10:20 – 10:40	ICGSCE2018-054	ICGSCE2018-031
10:40 – 11:00	<b>Coffee Break (Foyer Studio), Level 3</b>	
<b>Time</b>	<b>Session 2C –Chairperson:</b> Dr. Nik Raihan Nik Him (UiTM)	<b>Session 2D –Chairperson:</b> Dr. Zulkifli Abdul Rashid (UiTM)
11:00 - 11:20	ICGSCE2018-035	ICGSCE2018-021
11:20 – 11:40	ICGSCE2018-037	ICGSCE2018-006
11:40 – 12:00	ICGSCE2018-043	ICGSCE2018-011
12:00 – 12:20	ICGSCE2018-048	ICGSCE2018-012
12:20 – 12:40	ICGSCE2018-044	ICGSCE2018-014
12:40 – 13:00	ICGSCE2018-060	ICGSCE2018-016

13:00 – 14:00	Lunch (Link), Level G	
Time	Session 2E –Chairperson: Dr. Lim Ying Pei (UiTM)	Session 2F –Chairperson: Dr. Nor Roslina Rosli (UiTM)
14:00 – 14:20	ICGSCE2018-042	ICGSCE2018-058
14:20 – 14:40	ICGSCE2018-047	ICGSCE2018-057
14:40 – 15:00	ICGSCE2018-041	ICGSCE2018-028
15:00 – 15:20	ICGSCE2018-024	ICGSCE2018-018
15:20 – 15:40	ICGSCE2018-046	ICGSCE2018-039
15:40 – 16:00	Coffee Break (Foyer Studio), Level 3	
Time	Session 2G –Chairperson: Dr. Putri Nadzrul Faizura (UiTM)	Session 2H –Chairperson: Pn. Amizon Azizan (UiTM)
16:00 – 16:20	ICGSCE2018-022	ICGSCE2018-003
16:20 – 16:40	ICGSCE2018-032	ICGSCE2018-010
16:40 – 17:00	ICGSCE2018-034	ICGSCE2018-013
17:00 – 17:20	ICGSCE2018-056	ICGSCE2018-038
17:20 – 17:40	ICGSCE2018-050	-
<b>End of ICGSCE 2018</b>		

**Note:** The paper presenter shall dress appropriately for the presentation session. Each paper presenter is given **15 minutes for oral presentation and 5 minutes for question and answer session**. The paper presenters should time their presentation within this timeframe.

**LIST OF PAPERS FOR ICGSCE 2018**

No	Paper Title	Presenter Name	Paper ID
1	The Effect Of Carboxymethyl Cellulose As Bio Filler On Ionic Conductivity And Physical Property Of Waste Cooking Oil Based Polyurethane Composite Polymer Electrolyte	Syuhada Mohd Tahir	ICGSCE2018-015
2	Simulation and Optimisation of Anti-Dengue Nutraceutical Drink Production Plant for Medic IG Biopharma	Mohamad Sufian So'aib	ICGSCE2018-023
3	Effect of Electron Beam Irradiation and Ionic Liquid Combined Pretreatment Method on Various Lignocellulosic Biomass	Nur Amira Aida Jusri	ICGSCE2018-024
4	Overview: Isolation Of Antimicrobial Peptide From Food Protein Hydrolysates	Nurul Farhana Mashuri	ICGSCE2018-026
5	Combining Wet Rendering with Torrefaction to Improve the Fuel Characteristics of Biochar from Food Waste	Dr. Ruwaida Abdul Rasid	ICGSCE2018-017
6	Comparative Study Of Conventional And Microwave-Assisted Extraction Of Bioactive Phenolic Compounds And Antioxidant Activity Of Pandanus Amaryllifolius	Nurul Asyikin Md Zaki	ICGSCE2018-042
7	Biodegradation Characteristics Of Tacca Leontopetaloides Thermoplastic Films Under Controlled Composting Conditions	Ainatul Mardhiah Mohd Amin	ICGSCE2018-047
8	Thermal Properties and Moisture Content Analysis of Starch Fiber Filled Polyvinyl Alcohol-Polyvinyl Acetate (PVA-PVAc) Biofilm	Mohd Shahrul Nizam Salleh	ICGSCE2018-041
9	The Effect of pH on Zinc Oxide Nanoparticles Characteristics Synthesized from Banana Peel Extract	Rabiatul Adawiyah Abdol Aziz	ICGSCE2018-045
10	Effect of Turmeric Oil in Chitosan-Based Edible Coating on Physical and Chemical Properties of Strawberry	Noorsuhana Mohd Yusof	ICGSCE2018-046
11	Slow Pyrolysis Temperature and Duration Effects on Fuel Properties of Food Rice Waste Bio-Char	Ir. Normadyzah Ahmad	ICGSCE2018-055
12	CHLORELLA SOROKINIANA: Effect of Nitrate Replete Concentration on Biomass Yield, Cell and Nitrate Concentration	Noor Amelina Abdul Rahim	ICGSCE2018-061
13	Concerns on Analytical Results Involving Infrared to Microscopic Data Dealing with Ionic Liquids in Pretreatment of Lignocellulosic Biomass	Amizon Azizan	ICGSCE2018-051

No	Paper Title	Presenter Name	Paper ID
14	Flow Behaviour of Liquid Crystalline Phases of A Branched-Chain Glycolipid	Azwa Amanina binti Mislan	ICGSCE2018-007
15	Precursor Concentration Effect on Physicochemical Properties of Zinc Oxide Nanoparticle Synthesized with Banana Peel Extract	Rabiatul Adawiyah Abdol Aziz	ICGSCE2018-053
16	Study on Catalytic Steam Reforming of Toluene over Ni/Activated Carbon Catalysts Prepared from Adsorption Treatment of Nickel Electroplating Wastewater by Activated Carbon	Limo He	ICGSCE2018-008
17	Interaction Between Biomass And And Chinese Coal During Co-Pyrolysis	Zhe Xiong	ICGSCE2018-002
18	Experimental Study of Ignition and Combustion Characteristics of Mixed Rice Straw and Sewage Sludge Solid and Hollow Spherical Pellets in a Plasma Combustion System	Mohamed E. Mostafa	ICGSCE2018-004
19	Effects of CaO on the Evolution of Heavy Components in Bio-Oil during Sewage Sludge Pyrolysis: A Study Using ESI FT-ICR MS	Hengda Han	ICGSCE2018-009
20	Gasification of Municipal Solid Waste using Tyre Char as Catalyst	Mizan Qistina Saharuddin	ICGSCE2018-027
21	Exploring the Potential Application of Palm Methyl Ester Sulfonate as an Interfacial Tension Reducing Surfactant for Chemical Enhanced Oil Recovery	Parthiban Siwayanan	ICGSCE2018-019
22	Investigation on the Impact of an Enhanced Oil Recovery Polymer towards Microbial Growth and Microbial Induced Corrosion Rates	Hasrizal Abd Rahman	ICGSCE2018-036
23	Diffusion Coefficient And Interfacial Tension With Addition Of Silica Nanoparticles In Co <sub>2</sub> -Surfactant-Water-Hexane For Enhanced Oil Recovery (Eor) Using Molecular Dynamic Simulation	Nik Salwani Md Azmi	ICGSCE2018-049
24	Analyzing Cloud Points of Paraffinic Synthetic Mixtures in the Presence of MEG solutions	Mohd Zaki Zainal Abidin	ICGSCE2018-001
25	Characteristics & Erosion Study of Uncoated Sand Proppant under Flowback Condition	Husna Hayati Jarni	ICGSCE2018-054
26	Effect of Organic Nutrient Addition to the Biodegradation of Hydrocarbon Contaminated Marine Sediment in Malaysia	Azzah Nazihah Che Abdul Rahim	ICGSCE2018-052
27	Natural Deep Eutectic Solvent (NADES) as a Greener Alternative for the Extraction of Hydrophilic (Polar) and Lipophilic (Non-Polar) Phytonutrients	Nurul Amira Shazwani Zainuddin	ICGSCE2018-005

No	Paper Title	Presenter Name	Paper ID
28	Synthesis of Hybrid Cu-Doped TiO <sub>2</sub> Photocatalyst for Dye Removal	Dr. Lim Ying Pei	ICGSCE2018-029
29	Application of Cmc from Oil Palm Biomass as Anti-Redeposition Agent in Laundry Detergent	Syaza Naurah Mohd Hidzir	ICGSCE2018-030
30	Waste characteristics study and recycling practice trend at Tuanku Abdul Halim Mu'adzam Shah Engineering Complex, UiTM	Dr. Putri Faizura Megat Khamaruddin	ICGSCE2018-031
31	Aspen Plus Simulation of Bio-char Production from a Biomass-based Slow Pyrolysis Process	Abdul Halim Abdul Razik	ICGSCE2018-035
32	Improvement Of Product Quality Via Integration Of Statistical Process Control (Spc) And Engineering Process Control (Epc) In Batch Process (Penicillin Production)	Muhammad Haziq Sulaiman	ICGSCE2018-037
33	Meal Disturbance Effect on Blood Glucose Control for Type 1 Diabetes Using Improved Hovorka Equations	Nur Farhana Mohd Yusof	ICGSCE2018-043
34	Morphology Prediction and Dissolution Behavior of $\alpha$ -Succinic Acid in Ethanol Solution Using Molecular Dynamic Simulation	Muhamad Fitri Othman	ICGSCE2018-048
35	Prediction of Interaction of Citric Acid Modified Cellulose with Water Region Using Molecular Modelling Technique	Dr. Nornizar Anuar	ICGSCE2018-044
36	Interaction on Standard and Modified Adhesive (Albipox) with Water Using Molecular Modelling	Dr. Rahida Wati Sharudin	ICGSCE2018-060
37	Synthesis of ZnO Nanoparticles for Wax Deposition Control and Oil Upgrading: Effect of Ratio of Zinc Acetate Dihydrate to Oxalic Acid Dihydrate	'Aqilah Dollah	ICGSCE2018-057
38	Removal of Copper (II) Ion: Effect of Polysulfone Support Thickness	Dr. Norin Zamiah Kassim Shaari	ICGSCE2018-006
39	Fabrication of PSS/PDADMAC Polyelectrolyte Membrane via Layer-by-Layer (LbL) Technique for Forward Osmosis (FO) Application	Dr. Mazrul Nizam Abu Seman	ICGSCE2018-011
40	Effect Of Solvent Types On Gaharu (Aqualaria Malaccensis) Extract Quality And Its Chemical Compound	Sulaiman Ngadiran	ICGSCE2018-012
41	Application of Coconut Copra as Biosorbent for Removal of Heavy Metals	Terri Zhuan Ean Lee	ICGSCE2018-014

No	Paper Title	Presenter Name	Paper ID
42	Evaluation of Time for Overpressure in Gas-Liquid Separator and Dispersion of Flammable Gas to the Environment	Zhen Hong Ban	ICGSCE2018-016
43	Hybrid Tool for Heat Exchanger Network (HEN) Design for Synthesis and Purification Unit of Methanol Plant	Siti Rafidah Ab Rasid	ICGSCE2018-059
44	Fabrication of Amino-Functionalized CAU-1/ Cellulose Acetate Mixed Matrix Membranes for CO <sub>2</sub> /N <sub>2</sub> Separation	Dr. Yeong Yin Fong	ICGSCE2018-020
45	Evaluation of Renewable Methanol Production Plant Design Using Tri-Pressure Stripper Configuration	Mohd Aizad Ahmad	ICGSCE2018-025
46	Evaluation of Ammonia-Nitrogen Removal by Ultrasonic Irradiation in Synthetic Solution Using Response Surface Methodology	Dr. Jurina Jaafar	ICGSCE2018-033
47	Investigation of Lignin Content Removal in the Steam Exploded Empty Fruit Bunch Fibers	Muhammad Arif Fahmi Supian	ICGSCE2018-040
48	Far-Infrared Drying Effects onto the Physical Characteristics of Aquilaria malaccensis Leaves	Habsah Alwi	ICGSCE2018-058
49	Characterization Of Cr-P-C-Mos <sub>2</sub> Composite Plating Electro-Deposited From Trivalent Chromium	Jong Kyu Park	ICGSCE2018-021
50	Effect of PTFE addition on the behavior of Cr-P coating electroplated from a trivalent chromium	Young Min Byoun	ICGSCE2018-022
51	Stabilisation of Emulsified Agarwood Oil in an Aqueous System Using Non-Ionic Surfactant	Dr. Boon Yih Tien	ICGSCE2018-018
52	Investigation of Corrosion Mechanisms in a Continuous Catalytic Regeneration (CCR) Platformer Unit	Dr. Najmiddin Yaakob	ICGSCE2018-039
53	Thermo Distillation and Characterization of Bio Oil from Fast Pyrolysis of Palm Kernel Shell (PKS)	Deana Qarizada	ICGSCE2018-028
54	A Green In-Situ Synthesis of Hybrid Graphene-based Zeolitic Imidazolate Framework-8 Nanofillers using Recycling Mother Liquor	Najihah Jamil	ICGSCE2018-032
55	Musa Sapientum (Banana) Peels as Green Corrosion Inhibitor for Mild Steel	Dr. Nor Roslina Rosli	ICGSCE2018-034

No	Paper Title	Presenter Name	Paper ID
56	Progressive Freeze Concentration for Wastewater Treatment from Food Industry	Dr. Farah Hanim Ab Hamid	ICGSCE2018-056
57	Molecular Dynamic Investigation on the Dissolution Behaviour of Carbamazepine Form III in Ethanol Solution	Siti Nurul'ain Yusop	ICGSCE2018-050
58	Effect of Bio Fillers on Mechanical Properties of Natural Rubber Latex Films	Siti Fatma Abd Karim	ICGSCE2018-003
59	Transient Natural Convection Flow of Nanofluid Past a Convectively Heated Vertical Surface	Dr. Marneni Narahari	ICGSCE2018-010
60	Impact of Incoming Flow Momentum on Hydrodynamics of a Horizontal Gas-Liquid Separator	Lee Siong Hoong	ICGSCE2018-013
61	Investigating The Risk Posed By Chlorine Incident Release Under Wind Rose Effect: An Industrial Case Study	Dr. Zulkifli Abdul Rashid	ICGSCE2018-038