

Program ICLCA 2020

PROGRAMME						
DAY 1 (1 September 2020, Tuesday)						
8:30-9:10 am	<p>Opening Ceremony Conference Video</p> <p>Welcome speech by Ansheng Zhang, Vice President of SJTU Welcome speech by Datuk Ts. Dr. Ahmad Fauzi Ismail, Acting Vice Chancellor of UTM Welcome speech by Yong Geng, Dean of School of Environmental Science & Engineering(SESE), SJTU Welcome speech by Chin Siong Ho, Chairs of ICLCA 2020, UTM</p>					
9:10-9:50 am	<p>Plenary 1: “Coupling Human – Nature Systems for Sustainability” Prof. Bojie FU, Professor of Research Centre for Eco-Environmental Sciences, Chinese Academy of Sciences (CAS), China</p>					
09:50-10:30 am	<p>Plenary 2: Post COVID-19 Recovery: The Future of Malaysian Cities Dato’ TPr Mohd Anuar MAIDIN, Director General, Department of Town and Country Planning Malaysia (PLANMalaysia)</p>					
10:30-11:10 am	<p>Plenary 3: Establishing a Circulation and Ecological Sphere (R-CES) for Localising SDGs in the Face of COVID-19 Prof. Kazuhiko TAKEUCHI, President, Institute for Global Environmental Strategies (IGES, Japan)</p>					
11:10-11:20 am	Break					
11:20-12:00 am	Poster Session					
12:00-1:15pm	Lunch/ Poster Session					
	Parallel Session					
1:15-4:15pm	<p>Sustainable Energy Systems Chairs: Jia Li , David Csemany</p>	<p>Sustainable Waste Management Chairs: Chew Tin Lee, Mianqiang Xue</p>	<p>Sustainable Water Management Chairs: Yanping Mao, Qin Yu</p>	<p>Sustainable Agriculture & Urban Food Supply Chairs: Sheng Zhou, Hui Xia</p>	<p>Nexus & Circular Economy Chair: Xiaobin Dong, Xuechao Wang</p>	<p>Cleaner Technology Chairs: Zurina Mohamad, Zaki Yamani</p>
1:15-1:20	Introduction session by Chair					
1:20-1:45 pm	<p>KEYNOTE: Jeng Shiun Lim (Malaysia) ICLCA20.0013 Comparative Assessment for Mechanical Vapour Recompression And Multi-Effect</p>	<p>KEYNOTE: Song Toan Pham Phu (Japan) ICLCA20.0113 Analyzing the Current Problems and Challenges of Municipal Solid Waste</p>	<p>KEYNOTE: Yu Qin (Japan) ICLCA20.0063 Adjusting Recirculation Ratio in a Two-Phase Anaerobic Process for the Co-Production of</p>	<p>KEYNOTE: Hui Xia (China) ICLCA20.0042 Theories and practices in R&D of water-saving and drought-resistance rice (WDR)</p>	<p>KEYNOTE: Donggyun Ku (Korea) ICLCA20.0099 An Eco-friendly Path Guidance Algorithm for Electric Vehicles</p>	<p>KEYNOTE: Noraishah Saidina Amin (Malaysia) ICLCA20.0174 Fraction of Oil Palm Fronds(OPF) by Ozonolysis for</p>

	Evaporation Technology In Palm Oil Mill Effluent Elimination	Management System in a Big City of Vietnam	Hydrogen and Methane			Enhanced Sugar Production
1:45-2:05 pm	Peng Yen Liew (Malaysia) ICLCA20.0023 Integration of Combine Heat and Power System with Gas Turbine in Locally Integrated Energy Sectors	Xin Jin (China) ICLCA20.0169 The Influences of Internal Recycling Competencies and External Environmental Conditions on Urban Residents' Waste Classification and Recycling Behaviors: Based on the Mediating Effects of Classification and Recycling Intentions	Peni Astrini Notodarmojo (Japan) ICLCA20.0204 Oyster Shell as pH Control Substitute for Two Stage Anaerobic Co-Digestion System	Zaochang Liu (China) ICLCA20.0062 Breeding and culture practice of low carbon emission and water saving rice for Africa	John Frederick Tapia (Philippines) ICLCA20.0059 A Risk-based Decision Support Tool for Selection and Evaluation of Negative Emissions Technologies (NETs)	A. H. Ruhaimi (Malaysia) ICLCA20.0201 Synthesis of Mesoporous Synthesis of Mesoporous Magnesium Oxide by Eggshell Membrane Templating for Carbon Dioxide Capture
2:05-2:25 pm	Bohong Wang (Czech Republic) ICLCA20.0052 Optimisation for Heat and Power Integration on Total Sites with Multiple Distributed Energy Sources	Dinh Cuong Le (Vietnam) ICLCA20.0024 Solid Waste Collection System in Tourism Destination - the Status, Problems and Challenges	Chengxin Niu (China) ICLCA20.0040 Mesophilic Anaerobic Digestion of Thermally Hydrolyzed Sludge in Anaerobic Membrane Bioreactor: Long-term Performance, Microbial Community Dynamics and Membrane Fouling Mitigation	Junguo Bi (China) ICLCA20.0075 Phosphorus accumulation of Water saving and Drought resistance rice as affected by irrigation water management	Sara Piedrahita Rodríguez (Colombia) ICLCA20.0170 LCA of Biotechnological Processes based on the Composition of the Raw Material. Eucalyptus, Avocado, and Plantain cases in a Biorefinery system	Habuer (Japan) ICLCA20.0010 Environmental Impact of Anthropogenic Mercury Releases in China in Response to Minamata Convention on Mercury

2:25-2:45	Yen Duong (Vietnam) ICLCA20.0097 3D Simulation of Solar Greenhouse Dryer	Ruixue Wang (China) ICLCA20.0057 Recycling renewable resource from waste liquid crystal (LCD) panels by pyrolysis and vacuum reduction	Firdaus Ali (Indonesia) ICLCA20.0105 Thermal Radiant Cooling System Using Recycled Water from Swimming Pool	Huifeng Sun (China) ICLCA20.0028 Mitigation of greenhouse gas emission and non-point source pollution by planting Water-saving and Drought-resistance Rice (WDR)	Titilayo Enigbokan (China) ICLCA20.0130 Prototype Numerical Model for Assessing Geologic Hydrogen Storage Reservoirs	Peng Yen Liew (Malaysia) ICLCA20.0071 Integration of LiBr/H ₂ O Absorption Heat Pump and Absorption Heat Transformer in Total Site Heat Integration
2:45-2:50	Break					
2:50-3:15pm	KEYNOTE: Petar Sabev Varbanov (Czech Republic) ICLCA20.0166 Exergy Profit Evaluation of MSW Processing	KEYNOTE Won-Chun Oh (Korea) ICLCA20.0165 Graphene-Semiconductors Technology to Highly improved CO ₂ reduction and Gas sensor for Low Carbon Field Applications	Jiaying Ma (China) ICLCA20.0038 Powdered Activated Carbon Facilitates Methane Productivity of Anaerobic Co-digestion via Acidification Alleviating: Microbial and Metabolic Insights.	Xianxian Zhang (China) ICLCA20.0047 Understanding the Mitigation Potential of GHG Emission for Water-Saving and Drought-Resistant Rice under Dry Cultivation System in Anhui Province with DNDC Model	KEYNOTE Yee Van Fan (Czech Republic) ICLCA20.0106 Waste Trading System towards Circular Economy Transition	KEYNOTE Mazura Jusoh (Malaysia) ICLCA20.0209 Optimisation of concentration of cucumber juice using progressive freeze concentration process as a non-thermal process.
3:15-3:35pm	Gyöngyvér Hidegh (Hungary) ICLCA20.0175 Mixture Temperature-Controlled Combustion of Various Conventional and Renewable Fuels	Ronald Allan Co (Philippines) ICLCA20.0195 The Regional Assessment on the Solid Waste-to-Energy Potential in the Island of Luzon, Republic of the Philippines	Xiuxian Qi (China) ICLCA20.0029 Mixing strategies - Activated Carbon Nexus: Rapid Start-up of Thermophilic Anaerobic Digestion with the Mesophilic Anaerobic Sludge as Inoculum	Cong Wang (China) ICLCA20.0001 Effects of Different Fertilization Methods on Ammonia Volatilization from Rice Paddies	Poh Ying Hoo (Singapore) ICLCA20.0006 The Economics of Sustainable Aviation Fuel (SAF) in Aircraft	Zuraidah Zainudin (Malaysia) ICLCA20.0207 Natural Rubber and Its Modified Form in Coating and Adhesives Application: A Review

3:35-3:55pm	Muhammad Syamil Lokman (Malaysia) ICLCA20.0157 The Emergence of Phase Change Material in Solar Thermal Energy: a Review	Rosnani Hasham (Malaysia) ICLCA20.0116 Formulation and Characterization of Nanostructured Lipid Carrier Encapsulated Lemongrass Oil Using Ultrasonication Technique	Maria Prihandrijanti (Indonesia) ICLCA20.0067 Integrated Anaerobic-Aerobic System for Wastewater Treatment and Water Reclamation in Fish Canning Industry	Danielle Katrina Santos (Japan) ICLCA20.0140 Direct Payment Subsidies for Environmentally-Friendly Agriculture on Rice Production in Shiga, Japan	Joni Adiansyah (Indonesia) ICLCA20.0036 The Carbon Footprint of Geothermal Exploration Project in Indonesia: A Life Cycle Assessment Approach	Nor Azah Ramli (Malaysia) ICLCA20.0086 Enhancement of Isobutanol Production in <i>Saccharomyces cerevisiae</i> using Response Surface Methodology
3:55-4:15pm	Sahal Abidy (Indonesia) ICLCA20.0194 Analytical Study Of Wind Turbine Power Conversion Involving Density Ratio Based On Momentum Theory	Sheng Ding (China) ICLCA20.0018 Improvement of Watermelon Continuous Cropping Obstacle: Application of Urban Waste Compost	Hong Zhang (China) ICLCA20.0035 Recovery of Nutrients from Fish Sludge as Liquid Fertilizer: a Promising Way to Enhance Sustainability of Aquaponics	Huiyi Tan (Malaysia) ICLCA20.0109 Mitigation of Soil Salinity Using Biochar Derived from Lignocellulosic Biomass	Haryati Zainal (Malaysia) ICLCA20.0147 Complementing Social Life Cycle Assessment to Reach Sustainable Development Goals - A Case Study from The Malaysian Oil Palm Industry	Jiaqi Lu (Japan) ICLCA20.0080 Cl Recovery from End-of-life PVC Devised by Combining Experiment, Simulation and Ex-ante LCAs
4:15-4:20	Break					
4:20-5:00 pm	Plenary 4: Integrated Footprints Accounting for Sustainability Underlining Emissions Prof. Jiří Jaromír KLEMEŠ, Professor of Brno University of Technology, Czech Republic.					
5:00-5:40 pm	Plenary 5: Technology Development for the Mitigation of Climate Impact of Cropland Production in China Prof. Xiaoyuan YAN, Professor of Nanjing Institute of Soil Science, Chinese Academy of Sciences (CAS), China					
End of Day 1						

DAY 2 (2 September 2020, Wednesday)

9:00-9:40 am	Plenary 6: Environmental Pollution by Plastic Wastes and Microplastics and Progress in Plastic Biodegradation Dr. Weimin WU, Senior Researcher at Civil & Environmental Engineering, Stanford University, USA					
9:40-10:20 am	Plenary 7: Exploration of Chinese Approach on preventing Land-based Plastic Wastes into the Sea Professor Jinhui LI, Professor of the School of Environment, Tsinghua University, China					
10:20-11:00 am	Plenary 8: Sustainable Energy System in the Post COVID-19 Pandemic Prof. Jinjun XUE, Professor of the Center for International Economic Policy Research, Nagoya University, Japan					
Parallel Session						
11:05am-12:15pm	Sustainable Energy Systems Chairs: Cheng Tung Chong, Wai Shin Ho	Sustainable Waste Management Chair: Fujiwara Takeshi, Joni Adiansyah	Sustainable Water Management Chair: Haslenda Hashim, Yueshu Gao,	Sustainable Agriculture & Urban Food Supply Chair: Jining Zhang, Sirintornthep Towprayoon	Nexus & Circular Economy Chairs: Beatriz Belmonte, Phung Kim Le	Cleaner Technology Chairs: Nor Aishah Sardini Amin
11:05-11:10	Introduction session by Chair					
11:10-11:35am	KEYNOTE: Michael Francis Benjamin (Philippines) ICLCA20.0060 P-graph Method for Optimal Synthesis of Philippine Agricultural Waste-based Integrated Biorefinery	KEYNOTE: Mianqiang Xue (Japan) ICLCA20.0034 Assessment of ammonia energy carrier and nitrogen oxide recovery	KEYNOTE: Toan Duc Nguyen (Vietnam) ICLCA20.0223 A study on using Cyperus alternifolius for horizontal subsurface flow constructed wetland in municipal wastewater treatment	KEYNOTE: Xin-Qing Zhao (China) ICLCA20.0211 Improved cellulase production and ethanol fermentation for lignocellulosic biorefinery and low-carbon bioeconomy	KEYNOTE: Norhuda Abdul Manaf (Malaysia) ICLCA20.0019 Investment Decision of CCS Technology in HELE Coal-Plant via Dynamic Techno-Economic-policy Evaluation Framework: Case Study in China	KEYNOTE: Surisa Suwannarangsee (Thailand) ICLCA20.0203 Heterologous Expression of Aspergillus Aculeatus Exopolysaccharide in <i>Trichoderma Reesei</i> for D-Galacturonic Acid Production from Waste Pomelo Peel
11:35-11:55am	Jaya Prasanth Rajakal (Malaysia) ICLCA20.0065	Jun Keat Ooi (Malaysia) ICLCA20.0206	Fei Wu (China) ICLCA20.0138	Maurice Osewe (China) ICLCA20.0191	Beatriz Belmonte (Philippines) ICLCA20.0079	Tuan-Anh Nguyen (Vietnam) ICLCA20.0120

	Mathematical Model to Forecast Oil Palm Plantation Yield Impacted by Changes in Rainfall	Simultaneous Reduction of Greenhouse Gas Emissions and Cost Optimization of Municipal Solid Waste Management System in Malaysia	Effect of Operating Process Parameters of Surface Flow Constructed Wetland on Nitrogen and Phosphorus Removal and Sensory Quality of River Water	Can Sustainable Minimum Tillage Improve Smallholder Farmers Welfare? An Evidence from Southern Tanzania.	An optimization Framework for Biochar-based Carbon Management Networks	Modeling of Fixed-Bed Column Studies for the Adsorption of Cadmium onto Cockle Shell (Anadara Granosa) Powder
11:55am-12:15pm	Zaki Yamani Zakaria (Malaysia) ICLCA20.0190 Establishment of Industrial Energy Benchmarking in Malaysian Downstream Palm Oil Industry	Nur Amira Sahirah Abdullah (Malaysia) ICLCA20.0123 Alginate Based Sustainable Films and Composites for Packaging: A Review	Xijun Cu (China) ICLCA20.0152 Role of Iron-Carbon in Constructed Wetlands for Nitrate Remove: A Review	Siti Fatimah Masturah Musa (Malaysia) ICLCA20.0142 The Effects of Soilless Media and Foliar Application on the Growth and Yield of Solanum Lycopersicum	Xiaowan Wang (China) ICLCA20.0221 Research on Life Cycle Assessment of Enterprise Low-Carbon Model -- Taking Xinjiang Province Shihezi Farm Methane Project as an Example	Wai Mun Khor (Malaysia) ICLCA20.0172 Activated Carbon Cryogel as a Potential Adsorbent for Removal of Aspirin
12:15-1:15 pm	Lunch/ Virtual Technical Tour					
	Parallel Session					
1:15-5:00pm	Sustainable Energy Systems Chairs:, Liew Peng Yen,Huijin Xu	Sustainable Waste Management Chairs: Lu Zhan, Yinglong Su	Sustainable Water Management Chairs: Chunjie Li, Won-Chun Oh	Sustainable Agriculture & Urban Food Supply Chairs: Cong Wang , Xianxian Zhang	Nexus & Circular Economy Chairs: Donggyun Ku, Xiongfeng Pan	Cleaner Technology Chairs: Alafiza Yunus, Siti Hajjar Che Man
1:15-1:20	Introduction session by Chair					
1:20-1:45 pm	KEYNOTE: Younging Tang (China) ICLCA20.0177 Exergy Analysis of a Natural Gas-Fired Gas Turbine Combined Cycle Power Plant with	KEYNOTE: Yinglong Su (China) ICLCA20.0050 The Landfill Systems Become the Primary Reservoir of Microplastics due to the	KEYNOTE: Firdaus Ali (Indonesia) ICLCA20.0104 Challenges of MBBR and IFAS Implementation for	KEYNOTE: Xiaoqi Zhou (China) ICLCA20.0021 Manipulation of Soil Rare Species to Increase Ecosystem Functions in	KEYNOTE: Mark.T.Brown (United States of America) ICLCA20.00232 Emergy and Circular Economy	KEYNOTE: Rohah A Majid (Malaysia) ICLCA20.0095 The Effects of Citric Acid on Thermal and Mechanical

	Post-Combustion Carbon Capture and Exhaust Gas Recirculation	Landfill Treatment of Municipal Solid Wastes	Wastewater Treatment in Indonesia	Subtropical Agricultural Ecosystems		Properties of Starch Film
1:45-2:05pm	Wai Shin Ho (Malaysia) ICLCA20.0089 Study of Fresh Air Supply Vent on Indoor Air Pollutant Concentration and Energy Consumption in an Enclosed Space	Lingen Zhang (China) ICLCA20.0030 Novel Approach for Recovery of Palladium in Spent Catalyst from Automobile by a Capture Technology of Eutectic Copper	Thammananya Sakcharoen (Thailand) ICLCA20.0156 Environmental Sustainability Assessment of Zero-Waste System for Wastewater Recycling and Food Waste Management in Building	Changzhi Zhou (China) ICLCA20.0083 Soil Cadmium and Arsenic Stabilization by Fe-Modified Activated Carbon and Interaction with Nitrogen	Mariana Ortiz (Colombia) ICLCA20.0183 Influence of the Agronomic Component on the Environmental Impact of the Agro-industrial Waste Processing: The Case of Low Scale Biorefinery based on Orange Peel Waste	Khaled Saeed Baamran (Malaysia) ICLCA20.0199 Enhanced Phenol Steam Reforming for Selective Hydrogen Production Using Bimetallic Modified Zinc Titanate Nanocomposite
2:05-2:25pm	Wan Choy Chee (Malaysia) ICLCA20.0091 Food Waste Valorization via Graphical Pinch Analysis of Carbon-to-Nitrogen Ratio	Zurina Mohamad (Malaysia) ICLCA20.0122 Impact Strength and Morphology of Sustainably Sourced Polymer Blends Based on Recycling Polyethylene Terephthalate Plastic Bottles	Nurfarahana Mohd Nasir (Malaysia) ICLCA20.0076 Optimization of Wastewater Bioremediation and Harvesting Utilizing Response Surface Methodology (RSM)	Yuquan Zhang (China) ICLCA20.0081 Reducing Pesticides Usage in Metropolitan Settings – A Case Study in Shanghai	Effa Nabilla Aziz (Brunei) ICLCA20.0159 Convolution Recurrent Neural Network for Daily Forecast of PM10 Concentrations in Brunei Darussalam	Rafeqah Raslan (Malaysia) ICLCA20.0222 A Novel Surfactant Molecular Design with Optimal Performance, Safety and Health Aspects for Laundry Detergent
2:25-2:45pm	João Graça Gomes (China) ICLCA20.0077 Optimization of a Hybrid Solar-Wind System with Battery Storage for a Remote Island	Jianbo Wang (China) ICLCA20.0053 Environmentally Friendly Suspension Electrolysis Technology for Regenerating Lithium Cobalt Oxide in One Step	Siti Fatimah Sa'ad (Malaysia) ICLCA20.0008 Centralised Water Reuse Exchange in Eco-Industrial Park Considering Wastewater Segregation	Nhi Yen Trinh (Vietnam) ICLCA20.0096 Extraction and Bioactivities Evaluation of Star Anise (<i>Illicium verum</i> Hook. f.) Extract	Samuel-Soma Ajibade (Malaysia) ICLCA20.0025 Partical Article Swarm Optimization with Chaotic Dynamic Weight for Optimiaztion of Feature Selection	Gang Zhao (China) ICLCA20.0155 A new dust removal technology used in cleaner hot rolling mills: Atomization spray with ultra-high efficiency
2:45-2:55pm	Break					

2:55-3:20pm	KEYNOTE: Kok Sin Woon (Malaysia) ICLCA20.0012 A Proposed Framework for Renewable Energy Development via Food Waste Valorization to Biogas in Malaysia	KEYNOTE: Yanping Mao (China) ICLCA20.0107 Bioleaching Property and Genomic Insight of a Novel Bacterial Consortium in Performing Valuable Metal Recovery from Spent Lithium-ion Batteries	KEYNOTE: Chris Salim (Indonesia) ICLCA20.0069 Water Reclamation using Constructed Wetland in Indonesia Fish Canning Industry	KEYNOTE: Zubin Xie (China) ICLCA20.0135 Strategies to Use Biochar for Increases of Crops Production, Carbon Sequestration and Mitigation of Greenhouse Gases Emissions	KEYNOTE: Seungjae Lee (Korea) ICLCA20.0087 Impact Assessment on Cycle Super Highway Schemes	KEYNOTE: Muhammad Tahir (Malaysia) ICLCA20.0117 Synthesis and Characterization of WO ₃ /g-C ₃ N ₄ Heterojunction for Photocatalytic CO ₂ Reduction to CO
3:20-3:40pm	Cheng Tung Chong (China) ICLCA20.0181 Life Cycle Assessment of Aviation Biofuel Production from Palm Oil and Palm Fatty Acid Distillate	Lim Li Yee (Malaysia) ICLCA20.0213 Selection of Parameters for Soil Quality Following Compost Application: A Ranking Method	Zhiyong Zhang (China) ICLCA20.0144 Development of a highly Efficient Adsorbent based on Graphene Oxide for Ag ⁺ Recovery from Wastewater	Patikorn Sriphirom (Thailand) ICLCA20.0158 Effect of Mangrove Biochar on Methane Production, Oxidation and Emission of Rice Cultivation in Clay Loam Soil	Juan Camilo Solarte-Toro (Colombia) ICLCA20.0137 Perspectives of the Life Cycle Assessment in the Sustainability Assessment of Biorefineries	Jiaolong Qin (China) ICLCA20.0228 Calcium superphosphate as an inorganic stabilizer in modified-Fenton treatment of diesel-contaminated soil
3:40-4:00pm	Angel Xin Yee Mah (Malaysia) ICLCA20.0064 Optimization of PV Array Orientation and Performance Evaluation of Solar Tracking Systems	Yunqi Cao (China) ICLCA20.0061 Hydrothermal Carbonization of Garden Waste: Experimental Conditions Optimization and Adsorption Kinetics Study	Jo Yee Ho (Malaysia) ICLCA20.0163 Synthesis of a Sustainable Wastewater Treatment Plant (WWTP) for Sago Industry	Jining Zhang (China) ICLCA20.0043 Annual carbon dynamics response to biochar amendment over a 3-year intensive vegetable field	Kittinont Mokopen (Thailand) ICLCA20.0160 Community Forest Carbon Assessment in Eastern Thailand from Forest Conservation management by Local People	Sri Haryati (Indonesia) ICLCA20.0229 Performance Test of Aquatic Biomass Carbon Nanosheet Electrode in Supercapacitor
4:00-4:20pm	Nur Atirah Ibrahim (Malaysia) ICLCA20.0046 Impact of Drought Phenomenon on	Guo Ren Mong (Malaysia) ICLCA20.0119 Kinetics Analysis and Mass Loss Behavior of	Ying Thong Song (Malaysia) ICLCA20.0226 Natural Deep Eutectic Solvent (Nades)	Phongthep Hanpattanakit (Thailand) ICLCA20.0129	Muhammad Khairul Nizam Jensani (Malaysia) ICLCA20.0225	Nirwan Syarif (Indonesia) ICLCA20.0230 Gelam Tree-Derived Carbon Nanosheets:

	Renewable and Non-renewable Energy Systems in the ASEAN Countries	Food Waste Sludge Cake Pyrolysis Using TGA-FTIR	Design Framework For Extraction Of Polyphenols From Jackfruit	Red Chili Growth and Production Applied with Biochar under Heavy Acid Soil Stress	Design and Development of Food Waste to Biogas Converter System	Towards Development Of Thick And Free-Standing Electrode For Supercapacitor
4:20-4:40pm	Nguyen Quang Lon (Vietnam) ICLCA20.0037 Mesostructured zeolites prepared by one-pot top-down synthesis route for CO ₂ adsorption	Habuer (Japan) ICLCA20.0009 Substance flow analysis for anthropogenic mercury releases in China	Norul Fatiha Mohamed Noah (Malaysia) ICLCA20.0082 Emulsion Liquid Membrane Modelling for Chromium Removal from Electroplating Wastewater using TOMAC as a Carrier	Mirza Hussein Sabki (Malaysia) ICLCA20.0161 Abiotic Stress Tolerance and Plant Growth Metabolite Framework by Plant Growth-Promoting Bacteria for Sustainable Agriculture	Obinna Ezenkwa (Malaysia) ICLCA20.0218 Tensile and Impact Properties of Rice Husk Filled Ethylene-Acrylic Ester Maleic Anhydride Compatibilized Polypropylene Composites	Dayang Norulfairuz Abang Zaidel (Malaysia) ICLCA20.0049 Optimisation of Swietenia macrophylla Seed Oil Extraction using Ultrasound-assisted Method
4:40-5:00				Yanti Maslina Mohd Jusoh (Malaysia) ICLCA20.0189 Effect of Ultrasonication Process on Microbial Content and Antioxidant Activities of Black Mulberry-Pineapple-Mango Functional Drink	Xue-Chao Wang (Czech Republic) ICLCA20.0074 Critical transmissions of Water-Energy-Carbon Nexus in China	Norhayani Othman (Malaysia) ICLCA20.0231 Plasticizing Effects of Epoxidized Palm Oil on Mechanical and Thermal Properties of Poly(3-hydroxybutyrate-co-hydroxyvalerate)/Poly(caprolactone) Blends
5:00-5:10pm	Break					
5:10-5:40 pm	CLOSING CEREMONY					

List of Poster Presenters (11:15am-12:59pm, 1st September)

11:15am-12:59pm	Poster session I Chairs: Jeng Shiun Lim, Rachel Poh Ying Hoo			Poster session II Chairs: Peiyong Ong, Cassandra Bong		
	Presenter	ID No	Paper title	Presenter	ID No	Paper title
11:15-11:20am	Introduction session by Chair			Introduction session by Chair		
11:20-11:27am	Satoshi Nakai (Japan)	ICLCA20.0131	Application of Unsterilized Waste Water for Algal Cultivation and a Countermeasure to Aalgal Pond Crash	Muhammad Khairul Nizam Jensani (Malaysia)	ICLCA20.0224	Co-Digestion of Food Waste with Crude Glycerol for Biogas Production
11:27-11:34am	Nhan Thien Vo (Vietnam)	ICLCA20.0134	Novel Process Simulation of Biodiesel Production from Crude Castor Oil	Hoang Anh Hoang (Vietnam)	ICLCA20.0136	Composting of Pineapple Residues: A Pilot-Scale Study
11:34-11:41am	Xiao Hui Shi (China)	ICLCA20.0118	Research on Spatiotemporal Evolution of Energy Intensity in China based on Standard Deviation Ellipse Analysis	Nur Solehin Sulaiman (Malaysia)	ICLCA20.0031	Stability Analysis of Moisturising Lip Balm using Natural Pigment from Daucus carota
11:41-11:48am	Marek Majdak (Poland)	ICLCA20.0094	Influence of Flow Conditions on the Distribution of Thermal Stresses in the Waterwall Tubes of the Supercritical Boiler	Yue Zheng (China)	ICLCA20.0154	Room Temperature, Near-Quantitative Conversion of Glucose into Formic Acid
11:48-11:55am	Angel Xin Yee Mah (Malaysia)	ICLCA20.0193	Economic Assessment of Photovoltaic-Based Microgrid Incorporated with Solar Tracking System	A. H. Ruhaimi (Malaysia)	ICLCA20.0202	Synthesis of Mesoporous Cerium Oxide by Eggshell Membrane Templating for Carbon Dioxide Capture

11:55am-12:02pm	Zaki Yamani Zakaria (Malaysia)	ICLCA20.0085	ESI-RSPO Integrated Environmental Sustainability Index Framework: A Case Study	Jun Zhang (China)	ICLCA20.0133	High Level Expression of the Lipase BTL2 from <i>Bacillus thermocatenuatus</i> in <i>Escherichia coli</i> through Fed-Batch Fermentation and its Application into Preparation of Biodiesel using Rapeseed Oil
12:02-12:09pm	Jaya Prasanth Rajakal (Malaysia)	ICLCA20.0078	A Pareto Multi-Objective Optimisation for Sustainable Expansion in Sago Plantations	Uyen Tran (Vietnam)	ICLCA20.0066	NaOH-Promoted Reduction of Carbonyl Compounds Assisted by Microwave
12:09-12:16pm	Binghan Wang (China)	ICLCA20.0072	Anaerobic Co-digestion of Cooked/uncooked Food Waste and Rice Straw: Methane Potential, Synergistic Effect and Performance	Jinju Hou (China)	ICLCA20.0055	The Enhancement of Bioethanol Production by a new Adsorbent AEPA250 and its Mechanisms
12:16-12:23pm	Nghiep Pham Quoc (Vietnam)	ICLCA20.0007	Coal Fly Ash in Viet Nam and Application as Lightweight Material	Thai Van Nam (Vietnam)	ICLCA20.0198	Research on Biological Behavior and the Role of Peanut Worm (<i>Sipuculus Nudus</i>) in Mangrove ecosystems of Thanh Phu District and Can Gio District, Vietnam
12:23-12:30pm	Wai Shin Ho (Malaysia)	ICLCA20.0192	Mathematical Optimisation of Biogas Production and Utilization	Panliang Wang (China)	ICLCA20.0017	Functional Characteristic of Microbial Communities in Large-Scale Biotreatment Systems of Food Waste
12:30-12:37pm	Ha Ngan Nguyen (Vietnam)	ICLCA20.0167	Recycling Sprout-Growing Mediums in	Xiaojie Mei (China)	ICLCA20.0145	Efficient SO ₂ Removal and Highly Synergistic

			Urban Areas as Compost and New Growing Mediums			H ₂ O ₂ Production based a Novel Dual-Function Photoelectrocatalytic System
12:37-12:44pm	Hao Liu (China)	ICLCA20.0098	Design of Magnetic Suspended Spiral Sludge Dewatering Machine	Yan Zhang (China)	ICLCA20.0164	Efficient Removal of Total Organic Carbon and Total Nitrogen and Simultaneous Electricity Generation for Nitrogen-Containing Wastewater Based on the Catalytic Reactions of Hydroxyl and Chlorine radicals
12:44-12:52pm	Dinh Quan Nguyen (Vietnam)	ICLCA20.0132	Investigation of Water Hyacinth as A Feedstock for Bioethanol Production by Simultaneous Saccharification and Fermentation Process	Xinghua Chen (China)	ICLCA20.0088	Pyrolysis Mechanism for Waste Crystalline Silicon Photovoltaic Modules Separation by a Two-stage Heating Treatment
12:52-12:59pm	Changhui Zhou (China)	ICLCA20.0146	Novel 3D Pd-Cu(OH) ₂ /CF cathode for rapid reduction of nitrate-N and simultaneous total nitrogen removal from wastewater	Hesam Kamyab (Malaysia)	ICLCA20.0232	Novel Designing Framework of Stand-alone and Grid-connected Hybrid Photovoltaic/Wind/Battery Renewable Energy System Considering Reliability, Cost and Emission Indices Considering Covid-19 Condition

Virtual Technical Tour (12:15am-13:15pm, 2nd September)



Waste-to-Energy Project by Everbright International



Welcome to the Virtual tour: A visit to the power generation plant by International Everbright (光大国际). The waste management plant is located at Suzhou Wujiang district, covering a total area of 89.9 acres. The plant has a household waste processing capacity of 1500 t/d (~600,000 t/y). The plant is equipped with 2 x 750 t/d garbage incinerators and 2 x 18 MW steam turbine generator sets. The 750-t/d large-scale grate furnace is developed by Everbright International. The flue gas is treated and fully complies with the EU 2010 emissions standard.

Cordially inviting all ICLCA delegates to join this Virtual Technical Tour via the given ZOOM meeting link.