ABBS2019 PROGRAM

Venue: Ta Quang Buu Library, Hanoi University of Science and Technology Hanoi, November 13rd-15th 2019

13 rd November 2019	STEERING COMMITTEE MEETING (invited only)		
16:00-17:30	Room 201A, C4 Building		
14th November 2019	CONFERENCE DAY		
	RECEPTION AND OPENING, Conference Hall, 10th Floor		
7:30-8:30	Reception		
8:30-9:00	Opening remark and welcome speech		
	Prof. Dinh Van Phong, Vice president, HUST		
	Prof. Shu-Yii WU, President IAHE Biohydrogen Division; Chimica Verde Bionet Asia Pacific Association		
	Group Photo		
9:00-12:00	PLENARY SESSION, Conference Hall, 10th Floor		
9:00-9:30	Green Synergy Solution for Future		
	Prof. Shu-Yii WU, President IAHE Biohydrogen Division; Chimica Verde Bionet Asia Pacific Association		
9:30-10:00	Biorefinery: the Thai experience		
	Prof. Klanarong Sriroth, Director of Mitr Phol Group, Thailand		
10:00-10:30	COFFEE BREAK		
10:30-11:00	Application of Deep Learning for Bio-Energy (tbc)		
	Professor Jun Miyake, Osaka University, Japan		
11:00-11:30	A Path from Zero to Hero: Biohythane Production Technology and its Applications in Self-Sustained Community		
	Assoc. Prof. Andrew, Chen-Yeon CHU, Fengchia University, Taiwan		
11:30-12:00	Challenges in downstream processing of bio-products; energetic and economic aspects		
12:00-12:30	Prof. Wolfgang M. Samhaber, Johannes Kepler University Linz, Austria Energy transition and development prospects for renewable energy in Vietnam		
12.00-12.30	Assoc. Prof. Pham Hoang Luong, HUST,		
	Vice Chairman, Key State Science and Technology Program on Energy of Vietnam (KC.05/16-20)		
12:30-13:30	LUNCH, Ta Quang Buu Library, 10 th Floor		

13:30-17:15	SCIENTIFIC SESSIONS
	Room 923: Session 01: Biomass resources, Biohydrogen, Biogas and biofuel Room 901: Session 02: Fermentation and BioProcess Room 902: Session 03: Biomass process and refinery for energy and bioproducts
15:00-15:30	COFFEE BREAK AND POSTER SESSION
13:30-17:30	WORKSHOP: ADDING VALUES TO SUGAR INDUSTRY IN VIETNAM Room 702 (invited only)
18:00-20:30	GALA DINER
15th November 2019	SCIENTIFIC SESSION
8:45-11:30	Room 923: Session 01: Biomass resources, Biohydrogen, Biogas and biofuel (cont.) Room 902: Session 04: Bioenergy sustainability and bioeconomy-LCA
10:00-10:30	COFFEE BREAK AND POSTER SESSION
11:45-13:00	LUNCH, 10 th Floor
13:00-18:00	TECHNICAL TOUR: Habeco Brewery (registered only)
18:00	Return to the Hotel

SCIENTIFIC SESSION

DAY 1: 14th November 2019

13:30-17:15	Session 01: Biomass resources, Biohydrogen, Biogas and biofuel	Session 02: Fermentation and BioProcess	Session 03: Biomass process and refinery for energy and bioproducts
	Room 923 Chair: Prof. Alissara Reungsang	Room 901 Chair: Prof. Qiang Liao	Room 902 Chair: Dr. Peer Mohamed
	Assoc. Prof. Nguyen Lan Huong	Dr. Nguyen Tien Thanh	Assoc. Prof. Tran Lien Ha
13:30-13:45	BE-01: Influence of silicone immobilized cell on biohydrogen production in <i>Rhodobacter sphaeroides</i>	BP-02: The Effects of Alcohols on Pore Diameter of Biocellulose during the Membrane Formed Process	BR-04: Direct bio-butanol production from cellulosic material by the co-cultivation of white rot fungus and bacterium
13:45-14:00	BE-16: Smart usage of salt: reduction of methane emission during the storage and enhancement of biogas production during anaerobic digestion of pig slurry	BP-03: Enhancing microalgae harvesting of cationic starch flocculation by electrolysis flotation	BR-05: Bioaugmentation application in cattle slaughterhouse wastewater treatment for biomass production
14:00-14:15	BE-17: Substrates Substitutions of Photosynthetic and Other Bacteria for Hydrogen Economic Purposes Using Batch Culture System with Photo- or Dark- Fermentation Processes	BP-04: Iron (II) phthalocyanine supported on heavy oil soot as the catalysts for microbial fuel cells	BR-06: Ethanol production from cassava pulp by pre-hydrolysis and simultaneous saccharification and fermentation using immobilized enzymes and cells
14:15-14:30	BE-04: Efficiency and Economic Benefit Evaluation of Dark- and Photo Fermentative Biohydrogen Production by Fancy Production Efficiency Methods and Computable General Equilibrium Model Integrated Methodology in Major Circular Economies	BP-05: Effect of anode proton transport on cyclic voltammetry test in microbial fuel cell	BR-07: Simultaneous production of hydrogen and ethanol from co-digestion of glycerol waste with algal biomass
14:30-14:45	BE-05: Furfural tolerant biohydrogen producing bacteria: Isolation and characterization	BP-14: Submerged fermentation of <i>Trametes versicolor</i> (YunZhi mushroom) polysaccharopeptide	BR-12: The electro coagulation system with modified electrodes for the removal of cadmium and chromium III in wastewater
14:45-15:00	Q&A	Q&A	Q&A
15:00-15:30	COFFEE BREAK AND POSTER SESSION		

	Chair: Dr Ao Xia Dr. Dr. Dwi Susilaningsih	Chair: Prof. Am JANG Assoc. Prof. Le Thanh Ha	Chair: Assoc. Prof. Apilak Salakkam Dr. Pham Tuan Anh
15:30-15:45	BE-07: Stimulating direct interspecies electron transfer via foamed nickel supplement to enhance anaerobic digestion	BP-06: In situ visualization of biofilm formation in a microchannel for a microfluidic microbial fuel cell anode	BR-03: Enzymatic destructuration of different types of lignocellulose matrix: rheolometry, granulometry and hydrolysis kinetic
15:45-16:00	BE-08: Continuous anaerobic co-digestion between alcoholic fermentation wastewater and glycerol waste to produce gaseous biofuel	BP-07: Proton Exchange Membrane Water Electrolysis System–Effect of Pretreatment Before Electro-Coated for Ti Anode Support	BR-08: Isolation of thermo-tolerant fresh water green microalgae as potential feedstocks for biofuel production in the tropical and subtropical area
16:00-16:15	BE-10: Improvement of Biogas Production by Sulfate removal in Skim Latex Serum (SLS) Using Rubber Wood Ash	BP-09: Anti-oxidative and anti-tyrosinase activities of collagen peptides derived from vietnamese commercial catfish (pangasius hypophthalmus) gelatin	BR-09: Dual stage peroxide oxidation process in cellulose extraction from oil palm empty fruit bunch: Effect of cellulose fiber composition and structure on thermal properties analysis
16:15:16:30	BE-11: Enhancing bio-hydrogen and methane production by co-digestion of <i>Chlorella</i> sp. with cassava pulp	BP-11: Characterization and Identification of Lipid Producing Microalgae Isolated from Belitung Island, Indonesia	BR-10: Cellulose regeneration using ionic liquid from direct dissolution of lignocellulosic biomass
16:30-16:45	BE-12: Multi-enzyme pretreatment of <i>Chlorella</i> sp. biomass for biohydrogen production	BP-12: Mining enzymes from <i>Geobacillus</i> sp. pk12 for bioethanol synthesis under consolidated bioprocessing.	BR-11: Production and application of the magnetic cellulose from pineapple peel
16:45-17:00	BE-13: Co-digestion of biogas effluent and filter cake for methane production: optimization of substrate proportions.	BP-13: Optimization of cultivation medium for CMCase production from <i>Bacillus subtilis</i> G4	BR-15: Study on organic calcium production from crustaceans harvested in Quang Ninh Province by using organic acids
17:00-17:15	BE-15: Life cycle assessment of two-stage biohydrogen and biomethane production from palm oil mill effluent	SB-08: Diversity of oleaginous yeast newly isolated and their intracellular lipid accumulation ability	BP-08: Effect of torrefaction, hydrothermal carbonization and degradative solvent extraction on moisture adsorption and spontaneous combustion characteristics of biomass
17:15-17:30	Q&A	Q&A	Q&A

DAY 2: 15th November 2019

8:45-11:30	Session 01 Biomass resources, Biohydrogen, Biogas and biofuel Room 702 Chair: Prof. Alex Chang Prof. Seoktae Kang	Session 04 Bioenergy sustainability and bioeconomy-LCA Room 902 Chair: Prof. Chen-Yeon Chu Assoc. Prof. Nguyen Thi Anh Tuyet	
8:45-9:00	BE-14: Pre-treatment of palm oil mill effluent for biohydrogen production and bacterial community analysis via next gene sequencing SB-01: Evaluate energy efficiency in road transportation activities of Vietnam		
9:00-9:15	BR-13: Semi—continuous from solid-state anaerobic co-digestion empty fruit bunches with palm oil mill effluent: A case study on the effect of hydraulic retention time	SB-02: Economic feasibility of biomass power plant based on short rotation acacia on post mining land in Halong city	
9:15-9:30	SP-01: Enhanced acidogenesis by using Multi-walled carbon nanotubes (MWNT) in anaerobic digester	SB-04: Life cycle evaluation of GHG bio-energy	
9:30-9:45	SB-03: Enhanced methane conversion efficiency using conductive permeable electrode in microbial electrosynthesis system	SB-06: The Environmental Impact of Symbiosis Energy System to the Community	
9:45-10:00	Q&A	Q&A	
10:00-10:30	COFFEE BREAK AND POSTER SESSION		
	Chair: Prof. Jamaliah Md Jahim	Chair: Prof. Dong-Hoon Kim	
	Chair: Prof. Jamaliah Md Jahim Dr. Prawit KONGJAN	Chair: Prof. Dong-Hoon Kim Assoc. Prof. Van Dinh Son Tho	
10:30-10:45			
10:30-10:45 10:45-11:00	Dr. Prawit KONGJAN BE-03: Multi-walled carbon nanotubes (MWNTs) enhanced the	Assoc. Prof. Van Dinh Son Tho SB-07: The utilization of coconut husk for synthesis gas	
	Dr. Prawit KONGJAN BE-03: Multi-walled carbon nanotubes (MWNTs) enhanced the conversion of organic sulfur compounds to gaseous sulfur BE-18: Hydrogen Sulfide Removal from Biogas by using Recycled	Assoc. Prof. Van Dinh Son Tho SB-07: The utilization of coconut husk for synthesis gas production and industrial wastewater treatment SP-05: A self-assembly 3D macroporous (GO)/Fe3O4	
10:45-11:00	Dr. Prawit KONGJAN BE-03: Multi-walled carbon nanotubes (MWNTs) enhanced the conversion of organic sulfur compounds to gaseous sulfur BE-18: Hydrogen Sulfide Removal from Biogas by using Recycled Water Absorption for Concentration Latex Factory BE-19: Biomass and Polyurethane Co-Gasification for Syn-gas	Assoc. Prof. Van Dinh Son Tho SB-07: The utilization of coconut husk for synthesis gas production and industrial wastewater treatment SP-05: A self-assembly 3D macroporous (GO)/Fe3O4 biocathode enhance the performance of CO ₂ reduction to CH ₄ BP-10: Enhanced Anaerobic Digestion of Phenol via Electrical	

POSTER PRESENTATION

DAY 1: 14th November 2019, 15:00-15:30 DAY 2: 15th November 2019, 10:00-10:30

ID	Title
P-01	Effect of Ethanol on Biogas Production from Beverage Wastewater
P-02	Effect of Acidification Time on Anaerobic Methane Production from Chicken Manure
P-03	Integration of CO2 electrocatalysis for efficient syngas production in biological conversion to ethanol
P-04	Cultivation and use of Chlorella sp. biomass as feedstock for hydrogen and methane production
P-05	Screening of oleaginous yeast from Vietnamese environment
P-06	Color Control from Soybean Fermentation Wastewater by Carbon-based Adsorbents
P-07	One-step synthesis of fluorescent carbon dots from lemon juice for adsorption of methylene blue
P-08	Research, designing and manufacturing the equipment of pyrolysis for producing charcoal with the raw material from waste wood and renewable – planted wood.
P-09	Characterization of complete genome sequence and rubber degradation genes of Actinoplanes sp. strain OR16
P-10	Identification of microbial communities associated with coal in the red river basin, Vietnam
P-11	Influence of electrostatic field on the bioelectrochemical conversion of coal to methane
P-12	Ab initio simulation of hcl leaching during catalytic hydrolysis over cellulase-mimetic solid acid catalyst using density functional theory
P-13	Effect of pre-treatment methods on solubilization and anaerobic biodegradability of co-substrate of piggery wastewater and kitchen waste
P-14	Effect of organic loading rate on the hydrogen production in microbial electrolysis cells
P-15	Performance of UASB reactor for natural rubber processing wastewater treatment using cultivated polyvinyl alcohol gel beads
P-16	Two-stage biogas production from swine manure in Commercial field
P-17	The effect of reactor volume ratio of the dark and photo-fermentation on the bio-hydrogen production

P-18 Producing Bioethanol and organic manure from cashew apple Beta-Carotene fermentation using *Rhodotorula* sp. on food industrial byproduct P-21 Thermophilic anaerobic co-digestion of *Chlorella* sp. with empty fruit bunch for biohythane production Inoculum acclimation improves food waste utilization for high methane production P-23 Study on cellulase biosynthesis by thermophilic streptomyces *Thermoviolaceus* CX9 and the enzyme properties Enhanced anaerobic digestion of long chain fatty acid by adding magnetite and carbon nanotube materials Enhancement of lignocellulose enzymatic hydrolysis using a novel bionic flexible reactor Polyhydroxybutyrate (PHB) production by co-culture of Acinetobactor junii BP25 and Aeromonas hydrophila using wastewater derived from Bio-hydrogen production Biogas upgrading with trickling pall ring filter Effects of auxiliary bio-electrochemical reactor on methane production and electrochemical impact in anaerobic digestion reactor P-29 Bio-electrochemical activation of methanogenesis through SMA test and ANOVA P-30 Immobilization of Chlorella sorokiniana in polyvinyl alcohol for nutrient removal and biomass collection P-31 Application of forward osmosis process to concentrate volatile fatty acids from anaerobic digestion P-34 Pretreated micoalgal waste as the source for bio-hydrogen production Two-stage thermophilic biohythane production from palm oil mill effluent by two-ring reactor Enhancement of hydrogen production through a mixed culture from anaerobic bacteria