SYMPOSIUM PROGRAM

Venue: Ta Quang Buu Library, Hanoi University of Science and Technology

Hanoi, November 13 - 15th 2019

13 rd Nov 2019	STEERING COMMITTEE MEETING (invited only)		
16:00-17:30	Room 201A, C4 Building		
14 th Nov 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		
9:00-12:00	PLENARY SESSION, Conference Hall, 10 th Floor		
9:00-9:30	Green synergy solution for future		
7.00-7.50	Prof. Shu-Yii Wu, President IAHE Biohydrogen Division; Chimica Verde Bionet Asia Pacific Association		
9:30-10:00	Biorefinery: the Thai experience		
	Assoc 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)		
10.30-11.00	Prof. 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		
11.00-11.50	Assoc. Prof. Andrew, Chen-Yeon Chu, Fengchia University, Taiwan		
11:30-12:00	Challenges in downstream processing of bio-products; energetic and economic aspects		
11.30-12.00	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 Session 01: Biomass resources, Biohydrogen, Biogas and biofuel - Room 923 Session 02: Fermentation and BioProcess - Room 901 Session 03: Biomass process and refinery for energy and bioproducts - Room 902	
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	
15 th Nov 2019	SCIENTIFIC SESSION	
8:45-11:30	Session 01: Biomass resources, Biohydrogen, Biogas and biofuel (cont.) - Room 923 Session 04: Bioenergy sustainability and bioeconomy-LCA - Room 902	
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 (Room 923) Chair: Prof. Alissara Reungsang Assoc. Prof. Nguyen Lan Huong	Session 02: Fermentation and BioProcess (Room 901) Chair: Prof. Qiang Liao Assoc. Prof. Le Thanh Ha	Session 03: Biomass process and refinery for energy and bioproducts (Room 902) Chair: Dr. Peer Mohamed Assoc. Prof. Tran Lien Ha		
13:30-13:45	BE-01: Influence of silicone immobilized cell on biohydrogen production in <i>Rhodobacter</i> <i>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 materialby 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 (<i>pangasius hypophthalmus</i>) 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

Day2: 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		
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10000 10000	Chair: Prof. Jamaliah Md Jahim Dr. Prawit KONGJAN	Chair: Prof. Dong-Hoon Kim Assoc. Prof. Van Dinh Son Tho	
10:30-10:45	Chair: Prof. Jamaliah Md Jahim	Chair: Prof. Dong-Hoon Kim	
	Chair: Prof. Jamaliah Md Jahim Dr. Prawit KONGJAN BE-03: Multi-walled carbon nanotubes (MWNTs) enhanced the	Chair: Prof. Dong-Hoon Kim Assoc. Prof. Van Dinh Son Tho SB-07: The utilization of coconut husk for synthesis gas production	
10:30-10:45	Chair: Prof. Jamaliah Md Jahim 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	Chair: Prof. Dong-Hoon Kim 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)/Fe ₃ O ₄ biocathode	
10:30-10:45 10:45-11:00	Chair: Prof. Jamaliah Md Jahim 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	Chair: Prof. Dong-Hoon Kim Assoc. Prof. Van Dinh Son ThoSB-07: The utilization of coconut husk for synthesis gas production and industrial wastewater treatment.SP-05: A self-assembly 3D macroporous (GO)/Fe ₃ O ₄ biocathode enhance the performance of CO ₂ reduction to CH ₄ .BP-10: Enhanced anaerobic digestion of phenol via electrical energy	

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 CO ₂ 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
- P-21 Beta-Carotene fermentation using *Rhodotorula* sp. on food industrial byproduct
- P-22 Thermophilic anaerobic co-digestion of *Chlorella* sp. with empty fruit bunch for biohythane production
- **P-23** Inoculum acclimation improves food waste utilization for high methane production
- **P-24** Study on cellulase biosynthesis by thermophilic *Streptomyces Thermoviolaceus* CX9 and the enzyme properties
- P-25 Enhanced anaerobic digestion of long chain fatty acid by adding magnetite and carbon nanotube materials
- P-26 Enhancement of lignocellulose enzymatic hydrolysis using a novel bionic flexible reactor
- P-27 Polyhydroxybutyrate (PHB) production by co-culture of *Acinetobactor junii* BP25 and *Aeromonas hydrophila* using wastewater derived from Bio-hydrogen production
- P-28 Biogas upgrading with trickling pall ring filter
- P-29 Effects of auxiliary bio-electrochemical reactor on methane production and electrochemical impact in anaerobic digestion reactor
- **P-30** Bio-electrochemical activation of methanogenesis through SMA test and ANOVA
- **P-31** Immobilization of *Chlorella sorokiniana* in polyvinyl alcohol for nutrient removal and biomass collection
- **P-32** 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
- P-35 Two-stage thermophilic biohythane production from palm oil mill effluent by two-ring reactor
- **P-36** Enhancement of hydrogen production through a mixed culture from anaerobic bacteria