Agenda

The 7th ASEAN Bioenergy and Bioeconomy Conference (ABB2023): Sustainable Bioresources for Green Energy and Economy

August 31st, 2023 Queen Sirikit National Convention Centre (QSNCC), Bangkok, Thailand

	Opening Ceremony (MR 109 CD)
Moderator:	Dr. Chayanon Sawatdeenarunat, Chiangmai Rajabhat University
08.30 - 09.00	Registration
09.00 - 09.15	Report on the opening ceremony
	Dr. Pilanee Vaithanomsat, Director of Kasetsart Agricultural and
	Agro-Industrial Product Improvement Institute (KAPI),
	Kasetsart University, Thailand
09.15 – 09.30	Opening ceremony
	Dr. Chongrak Wachrinrat, President of Kasetsart University, Thailand
09.30 - 10.15	Keynote presentation
	"Towards Carbon Neutrality by Bio and Renewable Energy"
	Prof. Dr. Shabbir H. Gheewala, The Joint Graduate School of Energy and
	Environment (JGSEE), King Mongkut's University of Technology Thonburi, Thailand
10.15 – 10.30	Coffee break and <u>separate to session rooms</u>
	Bioenergy Session (MR 109 CD)
10.30 – 12.00	Panel Discussion
10.30 – 12.00	"Thailand's Challenges and Actions Toward Carbon Neutrality Goal"
	Moderator: Assoc. Prof. Dr. Rattanawan Mungkung
	Managing Director of VGREEN KU Co., Ltd. & Senior Lecture,
	Faculty of Environment, Kasetsart University, Thailand
	Panel Speakers:
	"Thailand Voluntary Emission Reduction Program: T-VER"
	Dr. Puttipar Rotkittikhun
	Director of Carbon Credit Certification Office,
	Thailand Greenhouse Gas Management Organization (TGO)
	"Case study T-VER"
	Miss Patwalai Ananjavanich Managing Director, 9S Engineering and Consultant Co., Ltd.
	"Renewable Energy Certificate: REC"
	Mrs. Rangsinee Prakij
	Director of Business Development Division,
	Electricity Generating Authority of Thailand (EGAT)
	"Case study REC"
	Mr. Somboon Samakphan
	Advance Specialist - Energy & Environmental Management,
10.00 10.00	BMW Manufacturing (Thailand) Co., Ltd.
12.00 – 13.30	Lunch (on your own)

	Bioenergy Session (MR 109 CD)
Chairman:	Dr. Chayanon Sawatdeenarunat
13.30 – 13.50	EN-R001: Model study of small char furnace for biomass carbonization process Lalita Petchaihan
13.50 – 14.10	School of Renewable Energy, Maejo University, Thailand EN-R002:
	Prediction of atmospheric water generation with using vapor compression refrigeration Tirawat Wongsatiam
14.10 - 14.30	School of Renewable Energy, Maejo University, Thailand EN-R003: Biofuel and energy transition
	Robert Edyvean
14.30 – 14.50	Department of Chemical and Biological Engineering, The University of Sheffield, United Kingdom
11.50 11.00	Performance of agricultural diesel engine with using pyrolysis oil blended biodiesel Phontakorn Liam-Kloub
	School of Renewable Energy, Maejo University, Thailand
	Coffee break and Poster session
15.10 – 15.30	EN-R005: Hydrochar production from elephant dung via hydrothermal carbonization process
	Sasithorn Saipa Asian Development College for Community Economy and Technology, Chiang Mai Rajabhat University, Thailand
15.30 – 15.50	EN-R006: Conversion of coffee husk charcoal into biomass fuel briquettes
	Suphanat Kaewtae
	Department of Renewable Energy, School of Renewable Energy, Maejo University, Thailand
15.50 – 16.10	EN-R007: Effect of mixing to biogas production from wastewater of black soldier fly
	larvae (BSFL) processing in floating drum digester
	Suradech Rungthong School of Renewable Energy, Maejo University, Thailand
16.10 – 16.30	EN-R008:
	Quantification of the bioethanol produced from coconut sap, young coconut husk juice, matured and young coconut water using simple fermentation-distillation process
	Dharell B. Siano Bataan Peninsula State University, Abucay, Bataan, Philippines
16.30 – 17.00	Announcement of Presentation Awards and Closing Bioenergy Session

	Bioeconomy Session (MR 109 H)
Chairman:	Asst. Prof. Dr. Patthra Pason, KMUTT
10.30 - 11.00	Invited presentation 1
	"Advanced Process Technologies for High-Quality Food Applications"
	Dr. Isao Kobayashi
	Principal Research Scientist, Division of Food Processing and Biomaterials
	Research, Institute of Food Research, NARO, Japan
11.00 - 11.20	EC-R001:
	The effective debranching type I pullulanase from Priestia koreensis HL12 as
	high potential biocatalysts for starch saccharification and modification
	Daran Prongjit
	Department of Biotechnology, Faculty of Science and Technology,
11.20 – 11.40	Thammasat University, Thailand
11.20 - 11.40	Ec-κου2: Efficient bimetallic of CuCo/γ-Al ₂ O ₃ catalyst for hydrogenolysis of glycerol
	conversion
	Bheechanat Duangdee
	Department of Chemical Engineering, Faculty of Engineering,
	Kasetsart University, Thailand
11.40 – 12.00	EC-R003:
	Market trends in biofuel supply and demand
	Supatchalee Sophonthammaphat
10.00 10.00	Department of Alternative Energy Development and Efficiency, Thailand
	Lunch (on your own)
15.50 - 14.00	Invited presentation 2 "Bio-Based Polymers for Circular Economy"
	Prof. Dr. Hakimah Osman
	Faculty of Chemical Engineering Technology,
	Universiti Malaysia Perlis, Malaysia
14.00 – 14.20	EC-R004:
	Cricket as an economic animal: A sustainable alternative protein source with
	the potential to be prebiotic
	Jaruporn Rakmai
	Biomass and Bio-Energy Technology Division, Kasetsart Agricultural and
	Agro-Industrial Product Improvement Institute (KAPI), Kasetsart University, Thailand
14.20 – 14.40	·
11.20 11.10	Production of pectinase by <i>Bacillus tequilensis</i> M1 using banana peel as an
	economical substrate
	Alif Qurrotul Afidah Lailiyah
	School of Bioresearch and Technology,
	King Mongkut's University of Technology Thonburi, Thailand
14.40 – 15.00	
	Integration of natural silica and alumina sources for synthesis of MCM-22
	and MCM-36 zeolite: Effect of precursor's ratio
	Worapak Tanwongwan College of Materials Innovation and Technology, King Mongkut's Institute of
	Technology Ladkrabang (KMITL), Thailand
15.00 – 16.00	Coffee break and Poster session
	Announcement of Presentation Awards and Closing Bioeconomy Session