

### Agenda: ABB2021 Virtual Conference

ASEAN Bioenergy and Bioeconomy Conference 2021:

Sustainable Bioresources for Green Energy and Economy

October 15th, 2021, 09.00-15.30 hrs. (GMT+7 Bangkok)

Bangkok International Trade and Exhibition Centre (BITEC), Bangkok, Thailand

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**(Virtual conference link no.1)**

#### Opening ceremony

<b>Moderator:</b>	<b>Dr. Worajit Setthapun, Dean of adiCET, Chiangmai Rajabhat University</b>
09.00 – 09.15	<b>Starting the conference</b>
09.15 – 09.30	<b>Report on the opening ceremony</b>
	Dr. Pilanee Vaithanomsat, Director of Kasetsart Agricultural and Agro-Industrial Product Improvement Institute (KAPI), Kasetsart University
09.30 – 10.00	<b>Opening ceremony</b>
	Dr. Chongrak Wachrinrat, President of Kasetsart University
10.00 – 10.45	<b>Keynote presentation</b>
	“Recommended Policy for Promoting Sustainable Energy in Thailand”
	Dr. Yaowateera Achawangkul, Ministry of Energy
10.45 – 11.00	<b>Separate to the meeting links</b>
	<i>Session I: Bioenergy (virtual conference link no.1)</i>
	<i>Session II: Bioeconomy (virtual conference link no.2)</i>

(Virtual conference link no.1)

### Session I: Bioenergy

<b>Chairman:</b>	<b>Dr. Worajit Setthapun</b>
11.00 – 11.30	<p><u>Invited presentation 1</u></p> <p>Novelty of biomass crazy's families to improve the value-added of agro-industrial by product as energy source</p> <p><b>Prof. Dr. Ni Nyoman Tri Puspaningsih</b> Head of University CoE-Research Center for Bio-Molecule Engineering, Universitas Airlangga, Indonesia</p>
11.30 – 12.00	<p><u>Invited presentation 2</u></p> <p>Anaerobic digestion: an essential step of sustainable organic waste management towards circular economy</p> <p><b>Dr. Pornpan Panichnumsin</b> National Science and Technology Development Agency, Thailand</p>
12.00 – 13.00	<i>Lunch</i>
13.00 – 13.20	<p><u>Oral presentation 1</u></p> <p>Utilising waste CO<sub>2</sub> to increase algal biomass for biofuel production</p> <p><b>Dr. Supatchalee Sophonthammaphat</b> Engineering, Department of Alternative Energy Development and Efficiency, Ministry of Energy, Thailand</p>
13.20 – 13.40	<p><u>Oral presentation 2</u></p> <p>A review green economy and biocircular economy model in Thailand and other countries</p> <p><b>Dr. Robert Edyvean</b> Reader, Department of Chemical and Biological Engineering, The University of Sheffield, UK.</p>
13.40 – 14.00	<p><u>Oral presentation 3</u></p> <p>Comparisons of heating methods in corn cob pretreatment by 1-butyl-3-methylimidazolium tetrafluoroborate and dimethylsulfoxide to enhance the enzymatic hydrolysis</p> <p><b>Ms. Manita Kuntapa</b> Energy Technology Program, School of Energy, Environment and Materials, King Mongkut's University of Technology Thonburi</p>
14.00 – 14.20	<u>Oral presentation 4</u>

Strategies of biogas production supplement in three stages high solid anaerobic digestion (TSHS-AD) with digestate reusing.

**Mr. Burachat Sripitak**

Energy Technology Program, Faculty of Engineering, Prince of Songkla University, Songkhla, Thailand.

14.20 – 14.40

Oral presentation 5

Effect of operating parameters on removal efficiency and mass transfer of CO<sub>2</sub> and H<sub>2</sub>S absorption process for bio-methane production by sodium hydroxide solution

**Mr. Thiwa Rattanaya**

Energy Technology Program, Faculty of Engineering, Prince of Songkla University, Songkhla, Thailand

14.40 – 15.00

Oral presentation 6

Methane production from two-stage anaerobic co-digestion process treating waste activated sludge and DAF slurry in tuna canning factories

**Ms. Khaliyah Sani**

Energy Technology Program, Faculty of Engineering, Prince of Songkla University, Songkhla, Thailand

15.30

**Closing bioenergy session**

Dr. Chakrit Tachaapaikoon, Vice Chairman of ABB2021

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(Virtual conference link no.2)

## Session II: Bioeconomy

<b>Chairman:</b>	<b>Asst.Prof.Dr. Patthra Pason</b>
11.00 – 11.30	<p><u>Invited presentation 1</u></p> <p>Regeneration of global environment using algae: underlying molecular mechanisms of carbon reserved molecules and their applications</p> <p><b>Dr. Sousuke Imamura</b> a Distinguished Researcher, NTT Space and Environment Energy Laboratories, Japan</p>
11.30 – 12.00	<p><u>Invited presentation 2</u></p> <p>Bio-based and biodegradable plastics from renewable resources and sustainable processes</p> <p><b>Prof. Dr. Kumar Sudesh</b> School of Biological Sciences, Universiti Sains Malaysia, Malaysia</p>
12.00 – 13.00	<i>Lunch</i>
13.00 – 13.20	<p><u>Oral presentation 1</u></p> <p>The dynamics of non-structural carbohydrate and involved enzymes, in relation with latex yield of rubber trees</p> <p><b>Mr. Tucksin Lerksamran</b> Kasetsart Agricultural and Agro-Industrial Product Improvement Institute (KAPI), Kasetsart University, Bangkok, Thailand</p>
13.20 – 13.40	<p><u>Oral presentation 2</u></p> <p>The physiological responses and sugar partitioning mechanisms of maize (<i>Zea mays</i> L.) at flowering stage under different drought stress regimes</p> <p><b>Mr. Artit Pongtip</b> Department of Agronomy, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand</p>
13.40 – 14.00	<p><u>Oral presentation 3</u></p> <p>Genetic diversity and physiological characteristics of quinoa under different ecotype conditions</p> <p><b>Ms. Nichakorn Khudklao</b> Department of Agronomy, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand</p>
14.00 – 14.20	<u>Oral presentation 4</u>

Utilization of banana peel biomordant for dyeing silk fabric with marigold flower extraction and its UV protection property

**Dr. Phannaphat Phromphen**

Faculty of Agro-Industry, Kasetsart University, Thailand

14.20 – 14.40

Oral presentation 5

Effect of source-sink balance management and optimum harvesting times on maize seed vigor and storability

**Ms. Sirinthorn Kaewchuai**

Department of Agronomy, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand

15.00

**Closing bioeconomy session**

Asst.Prof.Dr. Patthra Pason, Chairman of bioeconomy session

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