

# ACBS2019 Program

## Oral Session

Speaker

	No.	Time	Session	Presentation title	Name	Affiliation
Chair: Dr. Shimpei Aikawa (JIRCAS)						
OA	OA-01	10:20-10:35	Biomass pretreatment and solid fuels	Characterization of a Novel Thermophilic Anaerobic Chitinolytic bacterium <i>Hydrogenispora</i> sp. UU3	Umbhorn Ungkulpasvich	University of Tsukuba
	OA-02	10:35-10:50	Biomass pretreatment and solid fuels	Acetic acid prehydrolysis of p-cresol-impregnated softwood	Tsubasa Okamura	Mie University
	OA-03	13:30-14:30	Biomass pretreatment and solid fuels	Hydrothermal carbonization of <i>Chlorella vulgaris</i> : Effect of hydrothermal retention time for nutrient recovery	Yuta Hirose	Hiroshima University
	OA-04	11:05-11:20	Biomass pretreatment and solid fuels	In-situ acid-assisted hydrothermal carbonization of biomass waste: the properties of modified hydrochar and application in the removal of Cd (II), basic and acid dyes	Reza Khoshbouy	Tokyo Institute of Technology
Chair: Prof. Dr. Paritud Bhandhubanyong (PIM)						
OB	OB-01	11:30-11:45	Gasification technologies and energy system	Steam Gasification Properties of Bio-Chars Derived from Co-pyrolysis of Rice Straw with Other Biomass	Yohanes Andre Situmorang	Hirosaki University
	OB-02	11:45-12:00	Gasification technologies and energy system	Identification of major tar compounds of small downdraft gasifier using cedar pellets	Anh Vo Cong	Kanazawa University
	OB-03	12:00-12:15	Gasification technologies and energy system	An environmental analysis of Bio-H <sub>2</sub> production introducing the 2-step PSA and waste heat recovery	Haruka Nakayama	Tokyo University of Science
	OB-04	12:15-12:30	Gasification technologies and energy system	Behavior of multiwalled carbon nanotube catalyst under supercritical water condition in a continuous flow reactor	Mohammed ALI	Hiroshima University
Chair: Prof. Dr. Kiyoshi Dowaki (Tokyo University of Science)						
OC	OC-01	14:40-14:55	Biorefinery and liquid biofuels	Lignocellulosic biorefinery using microwave organosolvlysis	Takashi Watanabe	Kyoto University
	OC-02	14:55-15:10	Biorefinery and liquid biofuels	Lipid initial concentration dependency of intrinsic reaction rate constant for transesterification of lipid with methanol catalyzed by homogeneous acid and base catalyst	Yoshimitsu Uemura	Universiti Teknologi PETRONAS
	OC-03	15:10-15:25	Biorefinery and liquid biofuels	Potential of Microalgae Fuel Production at Wastewater Treatment	Riaru Ishizaki	University of Tsukuba
	OC-04	15:25-15:40	Biorefinery and liquid biofuels	Elucidation of lignocellulosic biomass degradation mechanism in alkali-thermophilic anaerobic bacteria <i>Herbivorax saccincola</i> A7	Sirilak Baramée	Japan International Research Center for Agricultural Sciences
Chair: Prof. Dr. Takaaki Furubayashi (Akita University)						
OD	OD-01	15:50-16:05	Biomass resources	Japanese biomass sustainability criteria and its effect on palm biomass supply chain	Takanobu Aikawa	Renewable Energy Institute
	OD-02	16:05-16:20	Biomass resources	Feasibility Study for CO <sub>2</sub> reduction by the biomass energy from palm farm in Indonesia	Akihiro Hamasaki	NPO Hyogo Professional Engineers Association
	OD-03	16:20-16:35	Biomass resources	Theoretical Approach to Comparison of Two Different Bagasse Utilization Systems in Cane Industry	K.T. Ariyawansa	University of Tsukuba
	OD-04	16:35-16:50	Biomass resources	Environmental assessment on paper sludge to electricity in paper mills in Thailand	Michino Hashizume	Tokyo Institute of Technology

# Poster Session

Speaker

No.	Time	Session	Presentation title	Name	Affiliation
P-01	13:30-14:30	Biomass pretreatment	Comparison between influences of cellulase and hemicellulase on thermal-degradation properties and length of cellulose nanofibers	Akihiro Hidenno	Ehime University
P-02	13:30-14:30	Biomass pretreatment	Structural Analysis of Japanese Cedar Fine Particle from Vibration Mill with Ring Media Pulverization	Yuma Hatakeyama	Akita Prefectural University
P-03	13:30-14:30	Biomass resources	Nutrition Optimization for Food Intake Consumption and Source of Cooking based on Food Cost in Cambodia	Hor Rathna	Tsukuba University
P-04	13:30-14:30	Biomass resources	Sustainable Replantation of Oil Palm by Adding Value to Oil Palm Trunk through Scientific and Technological Innovation	Akihiko Kosugi	Japan International Research Center For Agricultural Sciences
P-05	13:30-14:30	Microalgae	Influence of medium acidity on phosphorus consumption of <i>Chlorella vulgaris</i>	Puji Rahmawati Nurcahyani	Hiroshima University
P-06	13:30-14:30	Microalgae	Heterotrophic cultivation of microalgae using sap from oil palm trunks	Shimpei Aikawa	Japan International Research Center For Agricultural Sciences
P-07	13:30-14:30	Chemical and solid products	5-Hydroxymethylfurfural production in hot compressed water using magnetic catalyst	Kanta Ogawa	Hiroshima University
P-08	13:30-14:30	Chemical and solid products	Development of marine fertilizer using sludge ash	Shungo Aoki	Niigata University
P-09	13:30-14:30	Liquifaction	Comparison of liquefaction processes of waste agricultural biomass to obtain biopolyols	Tuohedi Nuerjamali	Graduate School of Science and Engineering, Saitama University
P-10	13:30-14:30	Combustion	Investigative Study for Low Particulate Matter Emission in Rice Husk Combustion	Emmanuel Owoicho Abah	University of Tsukuba
P-11	13:30-14:30	Gasification	A system analysis of the integrated gasification SOFC system using bio-syngas	Hiromu Sugihara	Tokyo University of Science
P-12	13:30-14:30	Gasification	Co-gasification of rice husk and banana peels for hydrogen-rich gas production	Aisikaer Anniwaer	Hirosaki University
P-13	13:30-14:30	Gasification	Effect of acetic acid on reaction of supercritical gasification of guaiacol	Pattraporn Changsuwan	Hiroshima University
P-14	13:30-14:30	Energy, Exergy, and Environmental analysis	An exergy-recuperative biomass-utilized power generation system	Zhongkai Zhao	Hirosaki University
P-15	13:30-14:30	Energy, Exergy, and Environmental analysis	Comparison of biodiesel production methods from microalgae on net energy ratio and CO <sub>2</sub> emission	Hiroshi Yoshioka	Hiroshima University
P-16	13:30-14:30	Energy, Exergy, and Environmental analysis	Discussion of environmental performance on a natural soil sorbent for Bio-H <sub>2</sub> purification	Seiya Kako	Tokyo University of Science
P-17	13:30-14:30	Energy, Exergy, and Environmental analysis	Analysis of biomass energy system considering various renewable energies: Case study in Akita prefecture	Takaaki Furubayashi	Akita University
P-18	13:30-14:30	Energy, Exergy, and Environmental analysis	Environmental impacts of fuel cell assisted bicycles in a sharing scheme	Emi Hosobuchi	Tokyo University of Science
P-19	13:30-14:30	Energy, Exergy, and Environmental analysis	Oil Palm Empty Fruit Bunches Waste as A Promising Feedstock for Biorefinery Products: Holistic Approach with Economic, Energy and Environmental Consideration	Agusta Samodra Putra	University of Tsukuba
P-20	13:30-14:30	Energy, Exergy, and Environmental analysis	To Solve SDGs by Biomass is Proposed	Akihiro Hamasaki	NPO Hyogo Professional Engineers Association
P-21	13:30-14:30	Energy, Exergy, and Environmental analysis	Comparison of thermal use and power generation of woody biomass	Takashi Amemiya	Nippon Institute Of Technology