

VIRTUAL KICK-OFF SEMINAR

INTEGRATED ACTIONS OF PEATLAND AND MANGROVE RESTORATION AND SUSTAINABLE DEVELOPMENT THROUGH BIO-VILLAGE CONCEPT



Opening Remark
Prof. Kono Yasuyuki
Center for Southeast
Asian Studies (CSEAS)
Kyoto University



Keynote Speaker
Ms. Makiko Yashiro
Programme Officer, Ecosystem Division,
UNEP Regional Office for Asian and the Pacific,
In charge of the UN Decade of
Ecosystem Restoration.



Introduction of the Activities
Prof. Wahyu Dwianto
Research Center for Biomaterials,
Indonesian Institute of Sciences

DATE
JULY 27,
2021
[TUESDAY]

08:30-12:30
West Indonesian Time

ENVIRONMENT AND RELATED SCIENCES



Assoc. Prof. Osamu Kozan
CSEAS, Kyoto University



Prof. Hadi Susilo Arifin
Natural Resources and Environmental
Management Science Study Program,
School of Graduate Studies, IPB University



Prof. Dwi Astiani
Faculty of Forestry
Universitas Tanjungpura



Master of Ceremony
Citra Helen Purba, S.Hut.
Peatland and Mangrove
Restoration Agency,
Republic of Indonesia



Dr. Luki Subehi
Research Center for Limnology,
Indonesian Institute of Sciences



Prof. Maman Turjaman
Forest Research and
Development Centre (FRDC),
the Ministry of Environment and Forestry (MoEF)

Registration Fee
Free

Registration Deadline
July 23, 2021 (Friday)

Registration Link
<http://tinyurl.com/JAAISEMINAR2021>



FOOD AND HEALTH SCIENCES



Prof. C. Hanny Wijaya
Department of Food Science and Technology,
IPB University



Dr. Yanetri Asi Nion
Department of Agronomy,
Graduate School of Biology,
University of Palangka Raya



Prof. Dwi Susilaningih
Research Center for Biotechnology,
Indonesian Institute of Sciences



Prof. Ridwan Yahya
Department of Forestry,
Universitas Bengkulu



Moderator
Nina Yulianti, Ph.D.
Department of Environmental Science,
University of Palangka Raya



Closing Remark
Mr. Ryuichi Fukuhara
JASTIP Programme Coordinator

Organized by:
JSPS Alumni Association of Indonesia (JAAI)

Supported by:
Japan-ASEAN Science, Technology
and Innovation Platform (JASTIP)



KETERANGAN TENTANG SEMINAR INTERNASIONAL

Penyelenggara: JSPS Alumni Association Indonrsia (JAAI)

Peserta seminar internasional ini berasal dari lima negara (lihat yang distabillo kuning) yaitu:

1. Thailand
2. Kamboja
3. Jepang
4. Malaysia
5. Indonesia

PROGRAM BOOK

KICK-OFF SEMINAR

Japan-ASEAN Science, Technology and Innovation Platform

JASTIP-Net 2021



Organized by:



Theme:

**Integrated Actions of Peatland and Mangrove Restoration and
Sustainable Development through Bio-village Concept**

Virtual Meeting:

Bogor, West Java, Indonesia

July 27, 2021

AGENDA

Time	Agenda	Persons in Charge/Speakers
08:30 – 08:45	Greetings and Photo Session	Master of Ceremony: Citra Helen Purba, S.Hut. Peatland and Mangrove Restoration Agency, Republic of Indonesia
08:45 – 09:00	Opening Remark	Prof. Yasuyuki Kono Center for Southeast Asian Studies (CSEAS), Kyoto University
09:00 – 09:15	Keynote Speaker The UN Decade on Ecosystem Restoration and the importance of peatlands in Southeast Asia	Ms. Makiko Yashiro Programme Officer, Ecosystem Division, UNEP Regional Office for Asian and the Pacific
09:15 – 09:30	Introduction of Integrated Actions of Peatland and Mangrove Restoration and Sustainable Development through Bio-village Concept	Prof. Wahyu Dwianto Research Center for Biomaterials, Indonesian Institute of Sciences
Environment and Related Sciences		
09:30 – 09:45	Toward the Regeneration of Tropical Peatland Societies: Building International Research Network on Paludiculture and Sustainable Peatland Management	Assoc. Prof. Osamu Kozan CSEAS, Kyoto University
09:45 – 10:00	Ecological Landscape of Agroforestry System for Sustainable Communities Development in Peatland Area	Prof. Hadi Susilo Arifin Natural Resources and Environmental Management Science Study Program, School of Graduate Studies, IPB University
10:00 – 10:15	The Opportunity of Community-Small-Scale Mangrove Restoration to Develop a Multi-Purpose Benefit of a 'Mangrove Biovillage' in Singkawang West Kalimantan	Prof. Dwi Astiani Faculty of Forestry, Universitas Tanjungpura
10:15 – 10:30	In-land Water Environments Studies and Its Water Quality Monitoring	Dr. Luki Subehi Research Center for Limnology, Indonesian Institute of Sciences
10:30 – 10:45	Nursery and Planting of Rare and Endangered Trees for Reforestation of Critical Lands through Community Empowerment around the Forest	Prof. Maman Turjaman Forest Research and Development Centre (FRDC), the Ministry of Environment and Forestry (MoEF)

Food and Health Sciences		
10:45 – 11:00	Nutrients Potencies in Peatland Area: Lesson learned from Central Kalimantan	Prof. C. Hanny Wijaya Department of Food Science and Technology, IPB University
11.00 – 11:15	Exploration of Edible Mushroom from Rain forest, Central Kalimantan, Indonesia	Dr. Yanetri Asi Nion Department of Agronomy/Graduate School of Biology, University of Palangka Raya
New and Renewable Energy Sciences		
11:15 – 11:30	Floristic Microalgae from Peatland of Giam Siak Kecil and Its Function	Prof. Dwi Susilaningsih Research Center for Biotechnology, Indonesian Institute of Sciences
11:30 – 11:45	Charcoal from Residual Forest Biomass using a Pyrolysis Double Burner Furnace	Prof. Ridwan Yahya Department of Forestry, Universitas Bengkulu
11:45 – 12:15	Discussions	Moderator: Nina Yulianti, Ph.D Department of Environmental Science, University of Palangka Raya
12:15 – 12:30	Closing Remark	Mr. Ryuichi Fukuhara JASTIP Programme Coordinator

Steering Committee:

Mr. Ryuichi Fukuhara : JASTIP Programme Coordinator
Prof. Yasuyuki Kono : Center for Southeast Asian Studies (CSEAS), Kyoto University
Prof. Yoshio Otani : Director of JSPS Bangkok Office

Chairman:

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Technical Committee:

Teguh Darmawan, S.T. : Certificate and Program Book
Agus Mudo Prasetyo : Registration and Zoom Link
Trisno Utomo : Leaflet, Certificate and Program Book Designer



Prof. Ridwan Yahya

Ridwan Yahya is Professor of Department of Forestry, Faculty of Agriculture, Universitas Bengkulu. He was born in Luwu, South Sulawesi, Indonesia, on May 11, 1968. Obtained a Bachelor of Forestry degree from the Hasanuddin University in 1991, a Master degree in Wood Science and Technology from the University of the Philippines Los Banos in 2001, and a Doctorate in Forest and Biomaterials Science from Kyoto University in 2012. He was Head of Department of Forestry, Faculty of Agriculture, University of Bengkulu for the period 2002 - 2003 and 2018 - 2020. Now as Head of Innovation Center, University of Bengkulu. He has one granted patent and several national and international journal publications.

Toward the Regeneration of Tropical Peatland Societies: Building International Research Network on Paludiculture and Sustainable Peatland Management

Osamu Kozan^{1,2*} and Haris Gunawan³

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The degradation of tropical peat swamps in Southeast Asia has increasingly become problematic in the context of international environmental conservations. Due to their physical characteristics, tropical peat swamp forests have been difficult to utilize, and therefore, spared from development for a long time. However, drainage associated with plantation development of fast-growing and oil palm trees has led to a decrease in groundwater table levels and the drying of peat swamp forest.

This has in turn resulted in an increase in CO₂ emissions, by peat decomposition, and frequent fires. In Indonesia alone, an estimated 2.1 million hectares of forest – most of them peatlands – that were burned in 2015. The resultant haze caused incalculable damage to the local economy and has impacted the health of not only the local people, but also those in Malaysia and Singapore. In 2015, 0.5 million people in the region were diagnosed with upper respiratory infections. Haze has become a trans-boundary environmental, economic, and political issue.

In Indonesia, the political and social situation around peatland has made the sustainable management of the peat environment a difficult task. Most peatland is classified as state forest, and state appropriation has created contestation, overlapping, and insecurity over forest tenure conditions. Companies that were given concessions in peatland areas developed plantations, roads, and canals under weak state regulations, attracting people to move in. The complexity and vagueness of land possession has prevented the local villagers from managing peatland sustainably and continuously. As a result, the peat swamp has dried up, resulting in degradation, and in turn, widespread fires.

How can society develop institutions to control and manage these fires and mitigate degradation? We are conducting transdisciplinary research into the social-ecological systems in tropical peatlands to understand and address their vulnerabilities. Ultimately the project intends to elucidate the transformability of environmentally vulnerable societies.

Keywords: tropical peatland management, peatland fire and haze, rewetting and reforestation.

Charcoal from Residual Forest Biomass using a Pyrolysis Double Burner Furnace

Ridwan Yahya^{1*}, Yuwana¹, Jalin Elsaprike²

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Export demand for high-fixed carbon charcoal is increasing. The requirement for fixed carbon charcoal for Japan is 70% - 85% and for the UK a minimum of 80%. Using a conventional kiln, our preliminary research shows that the fixed carbon value of *Acacia mangium* Willd branches was 66%. The fixed carbon value is directly proportional to the temperature during charcoal making. In order to increase the combustion temperature, we designed a charcoal kiln which has two combustion sources. The name of the charcoal kiln is Pyrolysis Double Burner (PDB). The Giam Siak Kecil Wildlife Reserve is surrounded by a buffer zone. The buffer zone is an industrial plantation forest area. Species planted in the plantation include *A. crassicarpa* and *A. mangium*. One of the functions of the buffer zone is a place for the community to take their necessities of life, so that they will not damage the wildlife reserve. It is hoped that the community around the wildlife reserve can use the branches from the plantation forest for charcoal production using the PDB.

Keywords: Wildlife Reserve, Acacia, Fixed Carbon, Combustion Temperature, Forest Plantation

List of Participants

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207	Dr. Subekti Rahayu	World Ahtoforestry (ICRAF)
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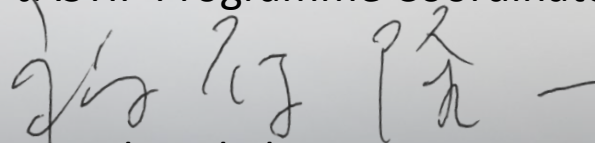
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JASTIP-Net 2021 “**Integrated Actions of Peatland and Mangrove Restoration and Sustainable
Development through Bio-village Concept**” on July 27, 2021.

JASTIP Programme Coordinator,



Ryuichi Fukuhara