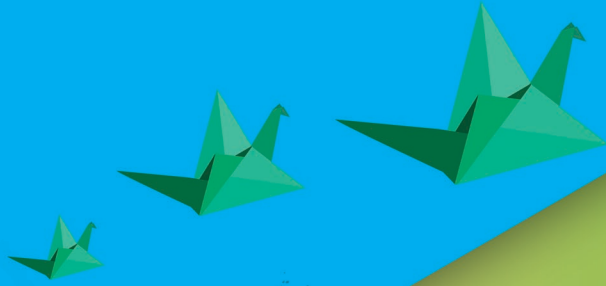




# General Assembly and the Third International Symposium of JSPS Alumni Association of Indonesia (IS-JAAI)



**OCTOBER 31 ,2019**  
**SALAK HERITAGE HOTEL**  
**BOGOR WEST JAVA, INDONESIA**



## Topics:

Food, Water, Energy, Human, Environment Security Studies, and Interdisciplinary Studies



THEME:

**The Role of JAAI to Promote Food, Water, Energy, Humanity, and Environmental Security**

# PROGRAM BOOK



**Organized by:**

JSPS Alumni Association of Indonesia (JAAI)

**Supported by:**

Indonesian Institute of Sciences (LIPI)

Japan Society for the Promotion of Sciences (JSPS)

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Linda Kriswati, SE.

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## PREFACE

Sustainable development has been defined as development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable development calls for concerted efforts towards building an inclusive, sustainable and resilient future for people and planet. For sustainable development to be achieved, it is crucial to harmonize three core elements: economic growth, social inclusion and environmental protection. These elements are interconnected and all are crucial for the well-being of individuals and societies. Eradicating poverty in all its forms and dimensions is an indispensable requirement for sustainable development.

As a member country of United Nation, Indonesia needs to implement the above global issues. However, as a developing country, Indonesia is faced with multidimensional problems, especially problems of food, water, energy, human, and environment security. The high number of poor, increasing population, low educated people, deterioration of environmental conditions, agricultural land conversion, loss of biodiversity, inadequate infrastructure, water crisis, energy crisis are just some of the complex factors that perpetuate social insecurity in Indonesia. In the long term these issues will become more complex when associated with climate change. The position of Indonesia in an archipelagic country is expected to experience a greater impact than any other country in climate change.

In order to contribute information, ideas and recommendations to minimize the above problems, Indonesian Alumni of the Japan Society for the Promotion of Science (JSPS) founded a scientific organization called JSPS ALUMNI ASSOCIATION OF INDONESIA (JAAI). JAAI was established in the Declaration and Congress I of JAAI on 17 November 2016 in Cibinong-Bogor, and formally inaugurated on 9 March 2017 in Jakarta.

JAAI is the 17<sup>th</sup> association among 19 JSPS alumni association in the world. JSPS alumni associations in the world are: Germany (1995), France (2003), UK & Ireland (2004), USA & Canada (2004), Sweden (2005), India (2006), Egypt (2008), Eastern Africa (2008), Korea (2008), Bangladesh (2009), Finland (2009), Thailand (2010), China (2010), Philippines (2013), Nepal (2015), Denmark (2015), **Indonesia (2016)**, Australia (2017), Norway (2019).

The objectives of JAAI are (1) to promote scientific exchange and research and cultural collaboration between Indonesia and Japan; (2) to encourage establishing collaborative networks between the JSPS alumni with Japanese scholars through organizing scientific meeting and symposia; (3) to conduct social services. In implementing the second objective, JAAI holds a symposium every year. The first symposium was held in Cibodas, Bogor on 27 October 2017, and the second symposium was held in Bogor Botanical Garden, Bogor on 26 September 2018. And, today JAAI conduct the Third General Assembly and International Symposium.

This symposium invites thought leaders, expert researchers, experienced entrepreneurs especially from JSPS Alumni in Indonesia, JAAI Registered Members, JSPS Alumni Association in the World, JSPS Delegation, Research Collaborators, Lecturers and Researchers from Universities, Research Institutes, Private Companies, others to share the use of science and current technology, presenting the changing face of the problems. Discussions will contribute to the formulation of consensus on the best course for Indonesia. The symposium will consist of keynote speech, invited speech, plenary sessions (oral presentation) and poster sessions. General assembly of JAAI will be the last agenda in this event before closing ceremony.

## AGENDA

TIME	ACTIVITIES/TITLES	SPEAKERS	PIC
08:00 – 09:00	Registration		OC
<b>OPENING CEREMONY</b>			<b>MC:</b> Bernadeta Ayu W.
09:00 – 09:05	Singing the National Anthem, Indonesia Raya	<b>Conductor:</b> Linda Kriswati	
09:05 – 09:15	Report from the Organizing Committee	<b>Dr. Sukma Surya Kusumah</b> Chairman of the Symposium	
09:15 – 09:30	Welcome Remarks	<b>Dr. Laksana Tri Handoko</b> Chairman of Indonesian Institute of Sciences (LIPI)	
09:30 – 09:45	Welcome Remarks	<b>Dr. Muhammad Dimiyati</b> Directorate General of Strengthening for Research and Development, Ministry of Research, Technology and Higher Education	
09:45 – 10:00	Opening Remarks and JSPS Bridge Fellowship Award*	<b>Prof. Kuniaki Yamashita</b> Director of JSPS Bangkok Office	
10:00 – 10:30	Photo Session, Giving Plaque and Coffee/Tea Break		OC
<b>KEYNOTE SPEAKER</b>			
10:30 – 11:15	Technology and Politics in Indonesia and beyond in the Post-truth Era	<b>Prof. Masaaki Okamoto</b> Center for Southeast Asian Studies, Kyoto University	<b>Moderator:</b> Dr. Sasa Sofyan M.
<b>INVITED SPEAKER</b>			
11:15 – 11:45	Science, Technology and Innovation (STI) for SDG's in Indonesia: in Case of LIPI Experience	<b>Prof. Bambang Subiyanto</b> Research Center for Biomaterials, Indonesian Institute of Sciences (LIPI)	
11:45 – 13:00	Lunch Break and Praying		OC
<b>POSTER SESSION</b>			
11:45 – 13:00	Poster Presentation ( <i>for the title, look at the Table of Content</i> )**		OC
13:00 – 13:30	Recent Development on Nanocellulose Technology	<b>Dr. Antonio Norio Nakagaito</b> Department of Mechanical Engineering, The University of Tokushima	
13:30 – 14:00	Potency Export to Japan: Information and Facilitation for Indonesia SME's	<b>Dr. Insan Fathir</b> The Japan External Trade Organization (JETRO)	
<b>PLENARY SESSION (ORAL PRESENTATION)</b>			
14:00 – 14:10	Evaluation of "HCV Toolkit Indonesia (2009)" For Analysis of High Conservation Value Areas Service Aspects of Controlling Erosion and Sedimentation Environment (HCV 4.2)	<b>Dr. Latief Mahir Rachman</b> Department of Soil Science and Land Resource, Bogor Agricultural University (IPB University)	<b>Moderator:</b> Sandi Sufiandi, PhD.

TIME	ACTIVITIES/TITLES	SPEAKERS	PIC
14:10 – 14:20	The Role of Culture to Strengthening Food Security Among Indigenous Peoples of Kasepuhan in West Java	<b>Dr. Herry Yogaswara</b> Research Center for Population, Indonesian Institute of Sciences (LIPI)	
14:20 – 14:30	Mercury Concentration on Seagrass Beds of Seribu Islands	<b>Andri Irawan, M. Si.</b> Research Center for Deep Sea, Indonesian Institute of Sciences (LIPI)	
14:30 – 14:40	The Effect of Turning Period and Feedstock Composition to the Septage Mix-Compost Quality	<b>Farisatul Amanah, M.T</b> Ministry of Energy and Mineral Resources	
14:40 – 14:50	Method of Fixed Bed Aerobic Biofiltration with The Variation of Biofilter Medium Bioball and Gravel in Soy Sauce Industrial Wastewater Treatment	<b>Siti Mujdalipah, M. Si</b> Indonesia University of Education	
14:50 – 15:00	Hydrolysis Enzyme Activity of Some Indigenous Actinomycetes in Presence of Choline Acetate Ionic Liquid	<b>Dr. Heri Satria</b> Lampung University	
15:00 – 15:10	Jabon and Pine Woods Impregnated with Furfuryl Resistance to Subterranean Termite Attack	<b>Prof. Yusuf Sudo Hadi</b> Faculty of Forestry, Bogor Agricultural University (IPB University)	<b>Moderator:</b> Dr. Titik Kartika
15:10 – 15:20	Physico-Chemical Characteristics of Pellet Made of Sawdust Waste from Papua's Commercial Wood Species and Sago Pulp	<b>Muliyana Arifudin, M.WoodSc.</b> Papua University	
15:20 – 15:30	Strategies For Improving The Quality of Sorghum-Acacia Wood Based Particle Board	<b>Prof. Yuliati Indrayani</b> Tanjungpura University	
15:30 – 15:40	Physical and Mechanical Properties of Some Wood Species from Community Forest for Glulam Production	<b>Dr. Eka Mulya Alamsyah</b> School of Life Sciences and Technology, Bandung Institute of Technology	
15:40 – 15:50	Impact of Water Management of Small-holder Oil Palm Plantation on Tropical Peatland Soil CO <sub>2</sub> Emission	<b>Prof. Dwi Astiani</b> Tanjungpura University	
15.50 – 16.00	Estimation of Long Dry Season over Java Island based on the ARIMA Model of Teleconnection between El-Nino and IOD Event	<b>Prof. Eddy Hermawan</b> National Institute of Aeronautics and Space (LAPAN)	
16:00 – 16:15	Coffee Break		OC
<b>GENERAL ASSEMBLY</b>			
16:15 – 17:30	General Assembly	<b>Prof. Subyakto</b> Chairman of JAAI	OC
<b>CLOSING CEREMONY</b>			
17.30 – 18:00	Closing Remarks and <i>the Best Poster Award</i>	<b>Prof. Subyakto</b> Chairman of JAAI	OC

\* JSPS Bridge Fellowship Award for Dr. Joshepine E Siregar (Eijkman Institute for Molecular Biology) and JSPS Ronpaku Medal Award for Dr. Lucky Zamzami, S.Sos, M.Soc, SC (Andalas University)

\*\* Committee for the Best Poster Award Selection: Prof. K. Yamashita, Prof. M. Okamoto, Prof. B. Subiyanto, Dr. AN. Nakagaito, Dr. Insan Fathir, and Prof. Subyakto.



## **REPORT BY CHAIRMAN OF THE SYMPOSIUM**

Assalamualaikum wr. wb  
Good Morning, Ohayo Gozaimasu

At first we would like praise to Allah swt that us have opportunity to attend on this special event in well condition, General Assembly and the Third International Symposium of JSPS Alumni Association of Indonesia on October 31<sup>st</sup>, 2019.

On the behalf of the Organizing Committee I would like to say welcome to all participant, especially Prof. Kuniaki Yamashita: Director of JSPS Bangkok Office and Team, Prof. Masaaki Okamoto, Dr. Antonio Norio Nakagaito as Keynote and Invited speakers from Japan, and Mr. Takahashi Yusuke and Mr. Miyazaki Takeshi: First Secretary of Embassy of Japan in Indonesia. I also would like to say special thanks for Invited speakers from Indonesia, Prof. Bambang Subiyanto and Dr. Insan Fathir. Great thanks deliver for Dr. Laksono Tri Handoko, Chairman of LIPI (Indonesians Institute of Sciences) and Dr. Muhammad Dimiyati, Director General of Strengthening for Research and Development, Indonesian Ministry of Research Technology and Higher Education. This symposium is attended by 137 participants from some research centers, universities and others in Indonesia. Please let me also say special gratitude to all of oral and poster presenters, all of participants of this symposium, committee member with say *success came by your active participation.*

Warmest appreciation deliver to participants that have send their presentations or manuscripts to this event. We are very sorry, all of research papers could not have time in orall presentation due to the limitation time of the symposium. My deep apologized and big thanks address to all of organizing committee members that have sacrificed their time and hard work for making success this event.

Finally, I wish you will have a fruitful and memorable meeting in the symposium. Hopefully, we can strengthen and develop our research collaboration.

Thank you very much.  
Go chūi itadaki arigatōgozaimasu  
Wassalamualaikum wr wb.

**Dr. Sukma Surya Kusumah**

## **WELCOME REMARKS BY CHAIRMAN OF LIPI**

Honorable Director JSPS Bangkok Office, Prof. Kuniaki Yamashita, and Team

Honorable Keynote Speaker: Prof. Masaaki Okamoto

Honorable Invited Speakers: Prof. Bambang Subiyanto, Dr. Antonio Norio Nakagaito, Dr. Insan Fathir

Honorable Minister of RISTEKDIKTI represented by Director General of Strengthening for Research and Development, Dr. Muhammad Dimiyati,

Honorable First Secretary of Embassy of Japan in Indonesia, Mr. Takahashi Yusuke and Mr. Miyazaki Takeshi

All presenters, members of JSPS Alumni Association of Indonesia (JAAI) and All of Participants,

***Assalamu 'alaikum Wr. Wb.***

**Good Morning, Ohaiyo Gozaimasu, Selamat Pagi,**

First of all let us thanks Almighty God for the blessing that we can get together today, October 31<sup>st</sup>, 2019, in this General Assembly and the Third International Symposium of JAAI.

**Ladies and Gentlemen,**

JAAI is a new organization; it was established in the Declaration and Congress I of JAAI on 17 November 2016 in Cibinong-Bogor, and formally inaugurated on 9 March 2017 in Jakarta. JAAI is the 17<sup>th</sup> association among 19 JSPS alumni association in the world. JSPS alumni associations in the world are: Germany (1995), France (2003), UK & Ireland (2004), USA & Canada (2004), Sweden (2005), India (2006), Egypt (2008), Eastern Africa (2008), Korea (2008), Bangladesh (2009), Finland (2009), Thailand (2010), China (2010), Philippines (2013), Nepal (2015), Denmark (2015), **Indonesia (2016)**, Australia (2017), Norway (2019).

The objectives of JAAI are to organize a symposium and to promote scientific exchange, research and cultural collaboration; and to give scientific recommendation on science and technology to Indonesian government. The first symposium was held in Cibodas, Bogor on 27 October 2017, and the second symposium was held in Bogor Botanical Garden, Bogor on 26 September 2018. And, today JAAI conduct again the General Assembly and the Third International Symposium.

The theme of this symposium: "*The Role of JAAI to Promote Food, Water, Energy, Humanity, and Environmental Security*", I think is very relevant with our current condition.

**Ladies and Gentlemen,**

I hope that JAAI could establish a good networking between the alumni and their partners in Japan or other countries. Hopefully we could have a good collaboration in the future.

I would like to thanks keynote speaker, invited speakers, all presenters and participants of this symposium. I hope the symposium could give a scientific recommendation to the government in the field of food, energy, water, human, and environment security.

Finally, I would like to thank JSPS, LIPI, RISTEKDIKTI, and sponsors for the valuable supports and the Organizing Committee to make this General Assembly and Symposium successful. I wish you all would have a fruitful and enjoyable symposium in *Beautiful Rain City* of Bogor.

***Wassalamu'alaikum Wr. Wb.***

**Dr. Laksana Tri Handoko**

## CURRICULUM VITAE



**Name:** Prof. Yamashita Kuniaki

### **Professional Background:**

- May 1994 UNESCO Secretariat (Paris, France) as programme specialist
- May 1994– March 1998 Youth and Sports Division, Sector for Social and Human Science
- April 1998– March 2003 National Commission Division, Sector for External relations
- March 2003 Retired from UNESCO
- April 2003 Entered Faculty of Languages and Cultures, Kyushu University As Professor
- April 2005 Appointed as Dean of Faculty of Languages and Cultures (until March 2008)
- October 2008 Appointed as Executive Adviser to the President of Kyushu University (until September 2009)
- April 2010 Appointed again as Dean of Faculty of Languages and Cultures, Kyushu University (until March 2012)
- April 2010 Appointed as board member of Management Council of Kyushu University (until March 2012)
- March 2012 Retired from Kyushu University
- July 2012 to Present Director, JSPS Bangkok Office

### **Affiliated Academic Societies :**

- Japan Society for Education for International understanding
- Japan Society for Volunteers study
- Development Education and Research Association
- Japan Society for ESD

## **OPENING REMARKS BY DIRECTOR OF JSPS BANGKOK OFFICE**

On behalf of Japan Society for the Promotion of Science (JSPS) Bangkok Office, I would like to congratulate all people of JAAI on the successful opening of JAAI annual scientific symposium in Bogor, Indonesia.

Taking this opportunity, I would like to introduce several plans of medium-term plan of JSPS and among them are fostering the next generations and enhancing the education and research function of universities. Specifically, JSPS is ready to provide fellowship fund for postdoctoral, long and short term visiting research in Japan and Ronpaku (PhD dissertation program) etc for young researchers. Furthermore the medium-term plan and international strategy of JSPS also include; Creation of world-class knowledge in diverse fields, Building robust international cooperative networks, and Building evidence-based science promotion systems and strengthen linkage with society.

Based on the JSPS strategy mentioned above, I would like to encourage participants to create ever-growing network among you and also create and develop new ideas, new projects. And I am very happy that JSPS will be able to assist your academic and scientific collaboration with Japanese researchers.

**Yamashita Kuniaki**  
Director of JSPS Bangkok Office

## **CONGRATULATORY MESSAGE BY JSPS SENIOR MANAGING DIRECTOR HEADQUARTERS**

On behalf of the Japan Society for the Promotion of Science, I am delighted to congratulate the members of the JSPS Alumni Association of Indonesia on the holding of your third International Symposium.

Established in 1932 for the purpose of advancing scientific research in Japan, the Japan Society for the Promotion of Science (JSPS) is Japan's core research funding agency. As one component of our program, JSPS enters into cooperative agreements with science-promotion organizations in countries around the world. With Indonesia, JSPS signed MoUs back in 1978 with DG-RSTHE and LIPI. Over the ensuing decades, JSPS has been carrying out a variety of programs of scientific exchange in cooperation with these partner agencies in Indonesia.

Through these JSPS programs, many excellent results have been achieved. Not stopping at scientific results, these achievements include the forming of close collegial networks among Japanese and Indonesian researchers.

Authorized in December 2016, JAAI was the seventeenth JSPS alumni association to be officially established. As of September 2019, JAAI grew to having 132 members, making it one of the largest alumni associations in Southeast Asia. Since its launching, JAAI has been developing an array of activities, including the holding of an international symposium each year.

This is the third time for JAAI to hold an international symposium. From the first in this series of symposiums, the theme has been on "The Role of JAAI to Promote Food, Water, Energy, Humanity, and Environmental Security." This theme is in line with the UN's sustainable development goals (SDGs). As such, each year the symposium attracts many participants with high interest in its theme. At them, presentations are based on leading-edge research in Japan and Indonesia. Concurrently, they provide an ideal platform for both strengthening existing networks and launching new networks among the two country's researchers.

In this symposium, two Japanese researchers will participate as invited speakers. They are Professor Masaaki Okamoto who is doing research at Kyoto University on the Southeast Asian region, and Associate Professor Antonio Norio Nakagaito who is doing research at Tokushima University in the field of material science. We are looking forward to their presentations imparting new information on their subjects, upon which a vibrant discussion will be advanced—one that explores new dimensions of those subjects.

Finally, I wish each of you, the participants in the symposium, and the utmost success in advancing your important research activities. As you do, I look forward to ever-strengthening scientific exchange between Japan and Indonesia.

**Mr. Noriyoshi Masuko**  
JSPS Senior Managing Director

# **PLENARY SESSION**

## Hydrolysis Enzyme Activity of Some Indigenous Actinomycetes in Presence of Choline Acetate Ionic Liquid

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### Abstract

Ionic liquids (ILs) pretreatment is recently becoming an attractive approach for advance the efficiency of enzymatic hydrolysis on lignocellulose. Choline acetate (ChoAc) is not only remarked as biocompatible ILs but also already intensively explored as an effective catalyst to pretreat lignocellulosic biomass. ChoAc could enhance enzymatic saccharification of lignocellulosic biomass according to its capability to deconstruct the compact biocomposite structure of biomass. This working observed hydrolysis activities of cellulase and xylanase which produce extra-cellularly by isolated actinomycetes under the presence of remain IL in pretreated rice straw. The pretreatment was conducted by using the various ratio of ChoAc/biomass (g/g) between 0.0-3.0 and subsequently hydrolysis process was conducting using selected actinomycetes that have the ability to excreted cellulase and xylanase. The ChoAc/biomass ratio was as detected to be 1.5, which achieved the highest activity of cellulase and xylanase at 63.28 u/mL and 79.65 U/mL respectively. The presence of ChoAc over 2.5 g/mL was declining cellulase activities to under 5 U/mL, on the contrary, xylanase activity remains stable at the range 52.23-79.65 U/mL. This investigation indicates the encouraging bio-hydrolysis of biomass in green technology to enhance the yield of the enzymatic saccharification of lignocellulosic biomass in one-pot technique.

Keywords: *ionic liquid, choline acetate, actinomycetes, cellulase, xylanase, rice straw*

## PUBLICATION

The organizing committee will propose all paper titles to journal editors according to the author's choice when filling out the symposium registration form. Editors from below journals have been invited and they will select papers presented at symposium and will be published in their journal after peer-reviewed. For the preparation of the full paper and how to submit, please see the link below for the author guidelines/submissions for each journal.

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