

As of April 15, 2019



# **The 6th *STS forum* ASEAN – JAPAN WORKSHOP in Singapore**

**Tuesday, APRIL 23 2019**

**Venue: Grand Copthorne Waterfront Hotel Singapore  
at the Grand ball room**



# Organizers

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**Science and Technology in Society *forum* (STS *forum*)**



**Agency for Science, Technology and Research (A\*STAR)**

# Co-Organizer

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**Japan External Trade Organization (JETRO)**

# Supported by

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**Embassy of Japan in Singapore**

# Program

## TIME

## AGENDA

### Monday, April 22, 2019

19:30 –  
21:30

**Welcome Reception hosted by H.E. Mr. Jun Yamazaki, Ambassador of Japan to Singapore**  
(Venue: the Official Residence of the Embassy of Japan in Singapore)

### Tuesday, April 23, 2019

8:30 – 9:00

**Registration (Welcome tea & coffee)**

**Opening Address:**

9:00 – 9:20

**Mr. Koji Omi**, Founder and Chairman, *STS forum*, Japan  
**Ms. Chan Lai Fung**, Chairman, Agency for Science, Technology  
and Research (A\*STAR), Singapore

**Welcome Remarks:**

9:20 – 9:30

**H.E. Mr. Jun Yamazaki**, Ambassador of Japan to Singapore  
**Mr. Yasukazu Irino**, Executive Vice President, Japan External Trade  
Organization (JETRO), Japan

9:30 – 10:00

**Photo session & Coffee Break – All participants**

**Session 1:  
Science and Technology Cooperation between ASEAN and Japan:  
Human Resource Development and Brain  
Circulation**

ASEAN Member states lay out a large cost for educating young scientists, researchers, engineers and also future business leaders. However, most of the remarkable human resource leave their own countries to go abroad in order to seek new opportunities, and better working conditions. What would make hopeful human resource want to take an active role in their own countries, or how to take advantage of their developed experience again, pass back the know-hows they acquired to improve science and technology in their own countries.

**10:00-12:00**

Since coming back to Singapore, we would like to get back to the topic, “brain circulation” once again, which was chosen for the first ASEAN-JAPAN Workshop held in 2014. We achieved consensus on that in order to stimulate innovation between ASEAN countries and Japan it is important to strengthen network of S&T and Innovation community from the R&D phase to commercialization. Moreover, there were fruitful discussions over promoting young talent exchange programs on a continuing basis between ASEAN countries and Japan, and emphasizing brain circulation in entrepreneurial phase. Fresh and innovative perspectives of all participants from the 6th ASEAN-JAPAN workshop will surely blow a new wind to this topic once more.

ASEAN and Japan’s cooperation is guided by an image of “Shared Vision, Shared Identity, Shared Future” which was adopted by the ASEAN leaders and Prime Minister Shinzo Abe in 2013. How this can be achieved, how ASEAN members and Japan can deepen their cooperation in science and technology, innovation and human resources development, and how vital technologies will be dispersed to the less advanced economies to support their growth and development—these are some aspects for consideration to generate forward-looking ideas to strengthen ASEAN-Japan cooperation.

# Program

TIME	AGENDA
10:00-12:00	<b>Session 1: Science and Technology Cooperation between ASEAN and Japan: human resource development and brain circulation</b> <b>Chair:</b> ◎ <b>Prof.Dr.Ir. Bambang Subiyanto</b> , Vice Chairman, The Indonesian Institute of Sciences (LIPI), Indonesia
10:10-11:04	<b>Speakers:</b> ◎ <b>Mr. Yoshio Yamawaki</b> , Senior Deputy Minister, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan ◎ <b>Mr. Has Bunton</b> , Secretary General, The National Science and Technology Council (GS-NSTC), Cambodia ◎ <b>Dr. Kayo Inaba</b> , Executive Vice-President for Gender Equality, International Affairs, and Public Relations, Kyoto University, Japan ◎ <b>Dr. Mohd Nor Azman Hassan</b> , Deputy Secretary General (Science, Technology and Innovation), Ministry of Energy, Technology, Science, Climate Change and Environment, Malaysia ◎ <b>Dr. Yoshimasa Goto</b> , Executive Director, Japan Science and Technology Agency (JST), Japan ◎ <b>Mr. Lien Choong Luen</b> , General Manager, Go-Jek, Singapore ◎ <b>Prof. Motoko Kotani</b> , Executive Director, RIKEN, Japan ◎ <b>Prof. David Chan</b> , Director, Behavioural Sciences Institute, Singapore Management University, Singapore ◎ <b>A/Prof Jeremy Lim</b> , Partner, Oliver Wyman, Singapore
11:04-11:44	<b>Discussion</b> (40 min)
11:44-12:00	<b>Table back</b> (2 min X 7 tables)
12:00-12:10	<b>Wrap-up by 2 commentators</b> ◎ <b>Dr. Maria Cynthia Rose Banzon Bautista</b> , Vice President for Academic Affairs, Office of the Vice-President for Academic Affairs, University of the Philippines, Philippines ◎ <b>Dr. Chadamas Thuvasethakul</b> , Executive Vice President, National Science and Technology Development Agency (NSTDA), Thailand
12:00-13:15	<b>Lunch Break</b>

# Program

TIME	AGENDA
<b>13:15-15:30</b>	<p data-bbox="357 261 1089 305"><b>Session 2 : Future of Manufacturing</b></p> <p data-bbox="343 365 1866 625">Industry 4.0 is transforming how products are created, how supply chains are managed and how value chains, including business models, are defined. As such, Southeast Asia and Japan must continue to keep abreast of critical industry trends impacting manufacturing as well as the development of technologies, including Digital Manufacturing, Industrial - Internet of Things (IIoT), Additive Manufacturing and Artificial Intelligence (AI). By harnessing the opportunities created by global technology trends and industry shifts, Southeast Asia and Japan can enhance their capabilities to develop new solutions and business models across a range of sectors.</p> <p data-bbox="343 672 1831 893">Southeast Asia and Japan are aware of the need to prepare for Industry 4.0 and the majority have developed strategic plans to unlock the opportunities from Industry 4.0. For example, Singapore has published a report on her FoM technology strategies to transform Singapore into a technology innovation hub for manufacturing by: 1) creating public-private partnership (PPP) platforms to drive technology innovation, knowledge transfer and adoption; and 2) investing in novel and impactful Industry 4.0 technologies.</p> <p data-bbox="343 936 1856 1122">The 6th edition of the ASEAN – Japan Workshop provides a conducive platform to build on the complementary strengths and shared interests of Southeast Asia and Japan, for active discussions amongst participants and greater adoption of Industry 4.0. Participants can learn about the challenges and opportunities for Industry 4.0 in the region and identify means to deepen the science, technology and innovation cooperation between Southeast Asia and Japan.</p>

# Program

## TIME

## AGENDA

### Session 2: Future of Manufacturing

#### Chair:

©**Dr. David Low**, Chief Executive, Advanced Remanufacturing and Technology, Agency for Science, Technology and Research (A\*STAR), Singapore

#### Speakers:

©**Dr. Ir. Hammam RIZA, M.SC**, Chairman, Agency for the Assessment and Application of Technology (BPPT), Indonesia

©**Mr. Shoji Watanabe**, Deputy Director-General, Industrial Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry (METI)

©**Mr. Oliver Tonby**, Chairman, Mckinsey & Company, Singapore

©**Dr. Satoshi Sekiguchi**, Vice President, National Institute of Advanced Industrial Science and Technology (AIST), Japan

©**Mr. Wouter Van Wersch**, President & CEO, General Electric ASEAN-ANP, Singapore

©**Mr. Fumio Otani**, Director, Senior Vice President, Corporate Strategic Planning Division, Toshiba Energy Systems & Solutions Corporation, Japan

©**Dr. Wilaiporn Chetanachan**, Principal Innovation Advisor, Office of the President and CEO, The Siam Cement PLC, Thailand

©**Mr. Jürgen Willi Seitz**, Executive Vice President, Operation, Pepperl+Fuchs Asia Pte. Ltd., Singapore

©**Dr. Rezal Khairi Ahmad**, Chief Executive Officer, CEO's Office, NanoMalaysia Berhad, Malaysia

©**H.E. Bui The Duy**, Deputy Minister, Viet Nam Ministry of Science and Technology, Vietnam

14:25-15:05

**Discussion** (40 min)

15:05-15:20

**Table back** (2 min X 7 tables)

15:20-15:30

**Wrap-up by 2 commentators**

©**Dr. Mohd Yusoff Sulaiman**, President & Chief Executive Officer, Malaysian Industry-Government Group for High Technology (MIGHT), Malaysia

©**Dr. Raphael Guerrero**, Acting Dean, School of Science & Engineering Dean's Office, Ateneo de Manila University, Philippines

15:30-16:00

**Coffee Break**

# Program

TIME	AGENDA
<b>16:00 -16:20</b>	<b>Concluding Remarks:</b>
<b>16:00 -16:10</b>	<b>Mr. Frederick Chew</b> , Chief Executive, Agency for Science, Technology and Research (A*STAR), Singapore
<b>16:10 -16:20</b>	<b>Mr. Koji Omi</b> , Founder and Chairman, STS <i>forum</i> , Japan
<b>16:20 - 17:30</b>	<b>Networking Reception</b> hosted by A*STAR (Venue: the Veranda)