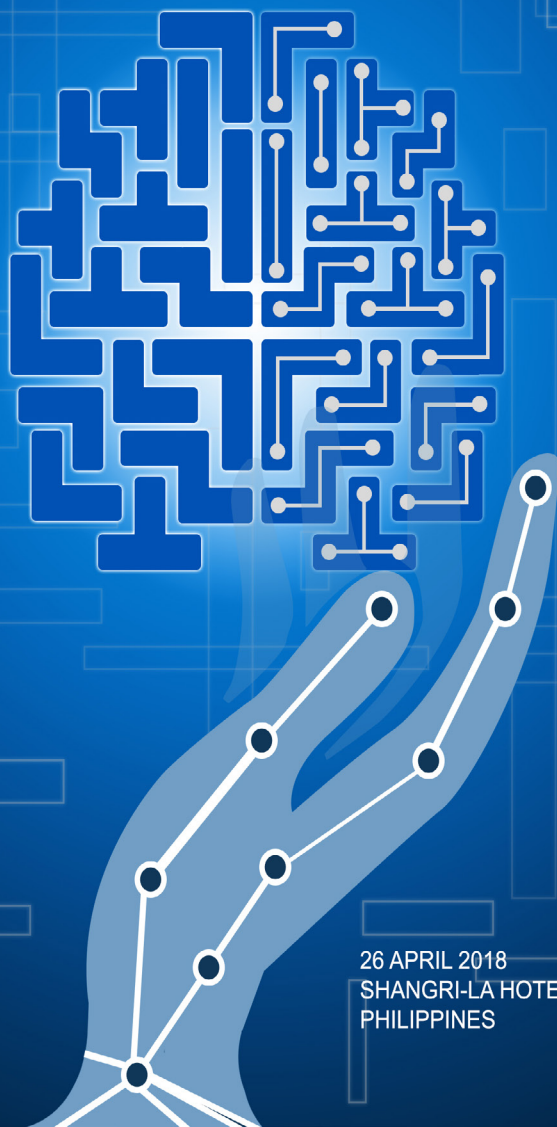


# 5<sup>th</sup> ASEAN-JAPAN WORKSHOP

• *Technology Transfer* • *Artificial Intelligence and Society 5.0* •

## PROGRAM BOOK



26 APRIL 2018  
SHANGRI-LA HOTEL, CEBU CITY  
PHILIPPINES





# INTRODUCTION

The Science and Technology in Society forum (STS *forum*), established in 2004 by former Japanese Finance Minister Koji Omi, is an annual gathering of global leaders from various sectors of society-- government, academe, private sector and industry-- with the aim of discussing the opportunities by which science, technology, and innovation (STI) can help address the issues and problems facing mankind. To give focus on the STI needs, capabilities, challenges and opportunities in the region, the ASEAN-Japan Workshop was launched, creating another marked platform for Japan and ASEAN Member States to gather and discuss specific areas of interest in science and technology cooperation.

The first Workshop was held in Singapore in May 2014, attended by over 70 leaders from ASEAN's scientific communities. The next workshop in Kuala Lumpur, Malaysia in June 2015 focused on empowering youth and women, as well as their roles in the field of S&T. In June 2016, the third workshop was hosted in Bangkok, Thailand, wherein the discussions centered on enabling small and medium enterprises and global companies in the era of ASEAN economic integration through technological innovations. Finally, the fourth workshop in Bali, Indonesia last April 2017 pondered on innovations for sustainable development.

This year, the 5th ASEAN-Japan Workshop will be hosted in Cebu, Philippines. Guided by the themes "Science and Technology Cooperation between ASEAN and Japan: Facilitating Technology Transfer" and "Artificial Intelligence and Society 5.0", it envisions for the promotion and sharing of forward-looking ideas that will contribute to the shaping of our society, nations, and the world against the backdrop of fast-paced advancements in ICT.

The 5th ASEAN-Japan Workshop is organized by the Department of Science and Technology (DOST) and the STS *forum*, with the Philippine Chamber of Commerce and Industry (PCCI) and the Japan External Trade Organization (JETRO) as co-organizers. It is also generously supported by the Embassy of Japan in the Philippines, the Japanese Chamber of Commerce and Industry of the Philippines, Inc., and the Japanese Chamber of Commerce & Industry of Cebu, Inc.

# MESSAGE



British Philosopher Bertrand Russell said, “The only thing that will redeem mankind is cooperation.” I cannot agree more. The past decade has shown the power of partnerships to advance developments in various sectors, and Science and Technology is of no exception.

The rapid spread of information technology, connectivity and networking throughout the globe increased, thereby creating enormous opportunities for sharing experience, knowledge, and good practices that can boost development. However, despite all these cyber advancements nothing beats a partnership that is molded by actual human encounter.

And that is why we are all here.

We are delighted to welcome every delegate— scholars, researchers, business leaders and policy makers from all over the region—in the 5th STS *forum* ASEAN-JAPAN Workshop organized by the Philippines Department of Science and Technology (DOST) and Science and Technology in Society forum (STS *forum*). The forum will be an opportune time for participants to stimulate discussions on how technology transfer and artificial intelligence can pave way to a greater vision of a super smart society, known to be as “Society 5.0”.

I encourage everyone to take advantage of this immensely thought-provoking activity, as we have invited excellent resource persons to share their knowledge and expertise. With their guidance, I am positive that we will be able to come up with best solutions to address barriers that hamper our full maximization of science and technology developments and innovation.

We look forward for a productive outcome of this endeavor. Our foregoing vision for Science appears ambitious and seemingly needs a great deal of resolve and resources. However, I am confident that with our efforts and contributions converged together, there is nothing that we aim that cannot be achieved.

A warm Filipino welcome and Mabuhay!

A handwritten signature in black ink, appearing to read 'F. T. de la Peña'.

**Professor Fortunato T. de la Peña**  
Secretary  
Department of Science and Technology- Philippines



# MESSAGE



It is my pleasure to welcome you to the Workshop on Innovation, Science and technology Cooperation between ASEAN and Japan.

The rapid progress of science and technology has supported economic growth and enriched our quality of life on the one hand. But on the other hand, science and technology has brought about new environmental, ethical, and security problems. We call these the lights and shadows of science and technology. We must strengthen the lights, and control the shadows, of science and technology.

Science and technology issues affect all of us today. We must think of them of something that concerns us personally, not leaving them only to science and technology professionals. The problems also cannot be solved by one or two countries alone, and therefore it is important for people from all over the world to gather and discuss the issues.

Based on the document “Partnering for Change, Engaging the World” issued by Prime Minister Shinzo Abe and ASEAN leaders in November 2017, this workshop will explore how Japan and ASEAN nations can deepen cooperation in innovation, science and technology, and human resources development. I believe that such cooperation between Japan and ASEAN countries is important not only for Asia but for development on a global scale.

The aim of this workshop is to promote exchanges of opinion leading to positive, forward-looking ideas and concepts that can be implemented to contribute to future development in Asia and throughout the world. I hope that this workshop will serve as a catalyst toward making the ideas generated here today a reality.

Cebu, April, 2018

A handwritten signature in black ink, appearing to read 'Koji Omi' followed by a stylized flourish.

**Mr. Koji Omi**

Founder and Chairman of STS *forum*

# AGENDA

**25**  
**APRIL**  
(WEDNESDAY)

**TIME**  
19:30 – 21:30

Welcome Reception hosted by  
H.E. Mr. Koji Haneda, Ambassador of Japan  
to the Philippines; Ocean Pavilion  
Shangri La Mactan

**26**  
**APRIL**  
(THURSDAY)

08:30 – 09:00

Registration (Welcome tea & coffee)  
Mactan Ballroom 3 & 4, Shangrila Mactan

09:00 – 09:30

**OPENING PROGRAM**

**Welcome Remarks:**

**MR. KOJI OMI**

Founder and Chairman  
STS forum-Japan

**Opening Address:**

**MR. GEORGE BARCELON**

Chairman  
Philippine Chamber of Commerce and Industry (PCCI)

**MR. YASUKAZU IRINO**

Executive Vice President  
Japan External Trade Organization (JETRO)

**H.E. MR. KOJI HANEDA**

Ambassador  
of Japan to the Philippines

**Keynote Speech:**

**PROF. FORTUNATO DE LA PEÑA**

Secretary  
Department of Science and Technology-Philippines



# AGENDA

09:40-11:45

## Session 1

Science and Technology Cooperation between ASEAN and Japan: Facilitating Technology Transfer

Building successful collaborations—whether internationally, regionally or domestically—has become a defining aspect of our world today, and this is also true in the field of Science and Technology. Working closely with others can stimulate researchers and scientists develop new ideas, discover fresh applications for their work, adopt novel techniques, gain access to funding, and ultimately deliver innovations that will benefit the whole society.

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.



# TECHNOLOGY TRANSFER

Session Chairman:

**DR. FIDEL NEMENZO**

Vice Chancellor

for Research & Development, University of the Philippines-Diliman

Speaker 1:

**MR. KAZUAKI KAWABATA**

Director-General for International Affairs

Ministry of Education, Culture, Sports, Science and Technology-Japan

Speaker 2:

**DR. LUIS SISON**

Director of Technology Transfer and Business Development Office

University of the Philippines Diliman

Speaker 3:

**DR. RAJ. THAMPURAN**

Managing Director

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

Speaker 4:

**PROF. IR. WIMPIE AGOENG NOEGROHO**

The Principal Secretary

Agency for the Assessment and Application of Technology (BPPT)-Indonesia

Speaker 5:

**MR. YASUHIRO MASHIKO**

Director of Alliance Development Office, Innovation Promotion Sector

Panasonic Corporation-Japan

Speaker 6:

**DR. MARIA CYNTHIA ROSE B. BAUTISTA**

Vice President

for Academic Affairs, University of the Philippines-Diliman





# TECHNOLOGY TRANSFER

Speaker 7:

**DR. KAYO INABA**

Executive Vice-President  
Kyoto University-Japan

Speaker 8:

**MR. TRAN TRI DUNG**

Innovation and Entrepreneurship Specialist  
Swiss Entrepreneurship Program-Viet Nam

Speaker 9:

**DR. SUVIT MAESINCEE**

Minister  
Ministry of Science and Technology-Thailand

Commentators:

**DR. CHULARAT TANPRASERT**

Vice President  
National Science and Technology Development Agency- Thailand

**PROF. ZAKRI ABDUL HAMID**

Science Advisor to the Prime Minister of Malaysia  
Office of the Science Advisor-Malaysia



# AGENDA

11:50 - 12:05

Outdoor Photo session – All participants

12:05 - 13:30

Lunch Break

13:30 - 15:35

Session 2

Artificial Intelligence and Society 5.0

Society 5.0 is a blueprint for big societal transformation envisioned by the government of Japan. The idea of Society 5.0 pictures the integration of cyberspace and physical space wherein there is a seamless link between humans as central actors and new technologies such as Internet of Things, artificial intelligence and robotics.

Society 5.0 can promote further economic growth and provide solutions to issues in today's world by minimizing gaps among age, gender, languages and any other limitations, and tailoring to diverse societal and individual needs. Since the idea of Society 5.0 is too broad to discuss, the session topic will be mainly focused on how the idea of Society 5.0 can be achieved with artificial intelligence.



# ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0

Session Chairman:

**PROF. DR. KAZUHITO HASHIMOTO**

President

National Institute for Materials Science- Japan

Speaker 1:

**MR. HIROYUKI SUEMATSU**

Director-General

Ministry of Economy, Trade and Industry- Japan

Speaker 2:

**DR. DANILO LACHICA**

President

Semiconductor and Electronics Industries in the Philippines Foundation Inc.

Speaker 3:

**DR. MOHD YUSOFF SULAIMAN**

President & CEO

Malaysian Industry-Government Group for High Technology

Speaker 4:

**DR. LIMIN HEE**

Director of Research

Ministry of National Development, Centre for Liveable Cities (CLC)

Singapore



# ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0

Speaker 5:

**DR. YUICHIRO ANZAI**

Senior Advisor for Japan Society for the Promotion of Science (JSPS)  
Director for Center for Science Information Analysis  
Japan Society for the Promotion of Science

Speaker 6:

**ATTY. JUAN PAOLO T. VILLONCO**

CEO  
Ignition Innovations, Inc. -Philippines

Speaker 7:

**DR. KATSUMI EMURA**

Executive Vice President, Chief Technology Officer and Member of the Board  
NEC Corporation- Japan

Speaker 8:

**DR. WILAIORN CHETANACHAN**

Director  
of Corporate Technology Office The Siam Cement PLC-Thailand

Commentators:

**PROF. DR. BAMBANG SUBIYANTO**

Acting Chairman  
Indonesian Institute of Sciences

**H.E. MR. HOUMPHANH INTHARATH**

Vice Minister  
Ministry of Science and Technology-Laos





# AGENDA

15:35 - 15:55

Coffee Break

15:55 - 16:15

CONCLUDING PROGRAM

Concluding Remarks:

**DR. ROWENA CRISTINA L. GUEVARA**

Undersecretary for Research and Development  
Department of Science and Technology-Philippines

**MR. KOJI OMI**

Founder and Chairman  
STS forum-Japan

18:30 - 20:00

Farewell Dinner hosted by DOST and PCCI  
Marquee Hall, Shangrila Mactan

# SPEAKERS PROFILE



**MR. KOJI OMI**

Founder and Chairman  
STS forum Japan

Koji Omi was born in 1932, in Gunma Prefecture, Japan. After graduation from Hitotsubashi University (Commerce), he joined the Ministry of International Trade and Industry (MITI) in 1956.

On assignment abroad with MITI, he served as Consul at the Japanese Consulate General in New York. Returning to Japan, he successively served as Director of the South Asia & Eastern Europe Division, Trade Policy Bureau; as Director of the Small Enterprise Policy Division, Small & Medium Enterprise Agency (S & MEA); as Director of the Administrative Division, the Science and Technology Agency; and as Director-General of the Guidance Department, S & MEA.

In 1982, Koji Omi resigned from MITI to run in the House of Representatives (lower house) election. First elected in 1983, he is now serving his eighth term. As a member of the House of Representatives, he has occupied the posts of Parliamentary Vice-minister for Finance; Director-General of the Commerce & Industry Policy Bureau, LDP; Director-General of the Science & Technology Policy Bureau, LDP; Chairman of the Standing Committee on Finance; Director-General of the Election Bureau, LDP; and Acting Secretary-General, LDP.

Until August 2009 is served as Member of the House of Representatives, previously serving as Minister of Finance (Sept. 2006 – Aug. 2007), three times as Cabinet Member, Minister of State for Science and Technology Policy, and for Okinawa and Northern Territories Affairs (2001-2002), and Minister of State for Economic Planning (1997-1998).

Koji Omi is considered as a key political figure and one of the most influential in the field of science and technology in Japan, his achievements including the central role he played in enacting the Fundamental Law of Science and Technology in 1995. This law contributed greatly toward making Japan a science and technology-oriented nation. As Minister of State for Okinawa and for Science and Technology, he advocated and promoted the founding of the Okinawa Institute of Science and Technology, an international and interdisciplinary graduate university. He also founded the Science and Technology in Society (STS) forum with the aim of building a worldwide network among scientists, policymakers and business people. The STS forum has been successfully held annually in Kyoto, Japan since 2004, to discuss the "lights and shadows" of science and technology for the sake of humankind.

# SPEAKERS PROFILE



**MR. GEORGE T. BARCELON**

Chairman  
Philippine Chamber of Commerce and Industry

George T. Barcelon is the current Chairman of the Philippine Chamber of Commerce and Industry, the largest business organization in the country. He represents the private sector in the Industry Development Council and National Competitive Council. He is one of three Philippine representatives to the ASEAN Business Advisory Council (ASEAN-BAC). He is the president of Integrated Computer Systems (ICS), Paramount Vinyl Products and, Interpolymer Corporation. He is also a trustee & treasurer of Philippines Exporters Confederation, director of Cardinal Santos Hospital Foundation, member of the Rotary Club of Makati, and president of Manila Golden Lions Club Foundation.



**MR. IRINO YASUKAZU**

Executive Vice President  
Japan External Trade Organization

Mr. Yasukazu Irino has been Executive Vice President, Japan External Trade Organization (JETRO) since October 2017. Prior to this, he served as Deputy Director-General for Trade Policy, Trade Policy Bureau, Ministry of Economy, Trade and Industry (METI). Mr. Irino graduated with a Law degree from Tokyo University and upon graduation he joined METI in 1987. After then, he has held various positions including experience working overseas as visiting fellow at Stanford University in the US and Commercial Counsellor at Embassy of Japan in UK, Head of Singapore Office, Chief Representative for Asia and Oceania at NEXI Singapore, assigned by Ministry of Economy, Trade and Industry (METI).

# SPEAKERS PROFILE



**H.E. MR. KOJI HANEDA**

Ambassador  
of Japan to the Philippines

September 2017: Ambassador Extraordinary and Plenipotentiary of Japan to the Republic of the Philippines; March 2016: Representative of the Government of Japan for Free Trade and Economic Partnership Agreements Negotiations; October 2015: Ambassador for International Economic Affairs; October 2012: Ambassador Extraordinary and Plenipotentiary of Japan to the Islamic Republic of Iran; August 2010: Director-General, International Peace Cooperation Headquarters, Cabinet Office; July 2009: Ambassador in charge of the United Nations Affairs, Foreign Policy Bureau; August 2007: Deputy Director-General, North American Affairs Bureau; November 2001: Minister, Permanent Mission of Japan to the United Nations, New York; April 2000: Director, First North America Division, North American Affairs Bureau; February 1998: Director, Second North America Division, North American Affairs Bureau; July 1996: Director, Services Trade Division (WTO), Economic Affairs Bureau; April 1979: Entered the Ministry of Foreign Affairs of Japan Served in Economic Affairs Bureau, North American Affairs Bureau, Private Secretary to Foreign Minister and Embassies of Japan in the Philippines; (1982-84), U.K. (1990-93) and India (1994-96).



**PROF. FORTUNATO T. DE LA PEÑA**

Secretary  
Department of Science and Technology

FORTUNATO T. DE LA PEÑA is currently the Secretary (Minister) of the Department of Science and Technology (DOST). He graduated with a degree of Bachelor of Science in Chemical Engineering from the University of the Philippines (UP) Diliman, Diploma in Industrial Quality Control from BIE (Bouwcentrum International Education), Rotterdam, Netherlands, Master of Science in Industrial Engineering from UP Diliman and Graduate Studies in Operations Research from the Polytechnic Institute of New York. He joined the UP College of Engineering Faculty in 1973 and became a full Professor of Industrial Engineering in 1988. He served UP in various administrative capacities (1982-2001). He served the DOST as Director of the Technology Application and Promotion Institute (1989-1991), President of the National Research Council of the Philippines (2001-2007) and Undersecretary (Vice Minister) for S&T Services (2001- 2014) prior to his current assignment.



# SPEAKERS PROFILE

## TECHNOLOGY TRANSFER



### **PROF. FIDEL R. NEMENZO**

Vice Chancellor  
Research and Development  
University of the Philippines Diliman  
fmenenzo@up.edu.ph

Fidel Nemenzo is Vice-Chancellor for Research and Development and Professor of Mathematics, University of the Philippines Diliman (UPD). He obtained his masters and doctorate degrees from Sophia University, Tokyo and specializes in algebraic number theory, elliptic curves and number theory. He served as head of the Science and Society Program of the College of Science of UPD, as a president of both the Mathematical Society of the Philippines and the Southeast Asian Mathematical Society.



### **MR. KAZUAKI KAWABATA**

Director-General for International Affairs  
Ministry of Education, Culture, Sports, Science and Technology, Japan

Kazuaki Kawabata was appointed Director-General for International Affairs at the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in April 2017. He started his career in the government when he entered the Science and Technology Agency (STA) in 1984. Since the merger of STA and Ministry of Education in 2001, he has been working for MEXT. Throughout his career, he has been engaged in a wide variety of activities, including management and coordination in the Minister's Secretariat Division, science and technology policy planning, atomic research development, space policy development, research promotion, and human resource development in the field of science. Apart from MEXT, he served as Vice President of the Japan Aerospace Exploration Agency (2015-2017), Director-General, Cultural Affairs Department, Agency for Cultural Affairs (2013-2014), and Professor at Tokyo University of Agriculture and Technology (2006-2008). He also worked at Columbia University in New York (1991), the Cabinet Secretariat (1998-2000), the International Atomic Energy Agency (IAEA) in Vienna (2000-2003), and the Cabinet Office (2004-2006). Born in Hyogo prefecture, Mr. Kawabata graduated from the Department of Political Science of the School of Political Science and Economics at Waseda University.

# SPEAKERS PROFILE

## TECHNOLOGY TRANSFER



**DR. LUIS SISON**

Director

of Technology Transfer and Business Development Office  
University of the Philippines Diliman  
[lgison@up.edu.ph](mailto:lgison@up.edu.ph)

Dr. Sison is a professor at the Electrical and Electronics Engineering Institute of the University of the Philippines Diliman and the program leader of the DOST-UP Enterprise Center for Technopreneurship where he advises startup companies on technology and business strategy. He was vice-chancellor for research and development from 2006 to 2011. He established the Technology Transfer Office, and the Instrumentation, Robotics, and Control Laboratory. He is also the co-founder of the Microcontroller Applications Design Contest, and was the chair of the Rules Committee and Board of Judges for the World Robotics Olympiad 2010. He was awarded by the Philippine Development Foundation in 2010 for his outstanding achievements in Science and Engineering Education. He was a visiting researcher at the University of California Berkeley as a Banatao Fellow. He holds an MS and PhD EE degree from Purdue University and a BS EE degree from UP Diliman. His research interests are telemedicine, biomedical instrumentation, education technology, and wireless sensor networks.



**DR. RAJ. THAMPURAN**

Managing Director

Agency for Science, Technology and Research (A\*STAR)  
[Raj\\_THAMPURAN@a-star.edu.sg](mailto:Raj_THAMPURAN@a-star.edu.sg)

Dr Raj. Thampuran was appointed Managing Director of A\*STAR in July 2012. He joined A\*STAR in 2000 as Head of the Technology Planning Unit. From 2002, he held portfolios as Deputy Director of the Electronics, Engineering and Chemicals clusters at various periods. In 2004, he rose to the position of Director and was involved in policy and planning matters for the Science and Engineering Research Council (SERC). In 2006, he was concurrently appointed as Executive Director of the Institute of High Performance Computing. He became Director of Planning and Policy Department of A\*STAR in 2008 to help spearhead the efforts towards the Science and Technology 2015 Plan. In April 2010, he was appointed as Deputy Executive Director of SERC, and subsequently Executive Director in October 2010.

# SPEAKERS PROFILE

## TECHNOLOGY TRANSFER



### **PROF. IR. WIMPIE AGOENG NOEGROHO, MSCE, Ph.D.**

The Principal Secretary  
Agency for the Assessment and Application of Technology (BPPT) Indonesia  
[wimpie.agoeng@bppt.go.id](mailto:wimpie.agoeng@bppt.go.id)

Name: Wimpie Agoeng N. Aspar Profession: Civil Engineer Date of Birth: April 14, 1959 Phone : 62811966968 Email address: [wimpie.agoeng@bppt.go.id](mailto:wimpie.agoeng@bppt.go.id) [wimpieaspar2001@yahoo.com](mailto:wimpieaspar2001@yahoo.com) Membership in Professional Societies: 1. Institute of Indonesian Engineers (PII) 2. American Society of Civil Engineers (ASCE) 3. International Society of Soil Mechanics and Foundation Engineering (ISSMFE) 4. Indonesian Society for Geotechnical Engineering (HATTI). Key Qualification: Wimpie Agoeng N. Aspar has offered more than 20 years service in the area of civil engineering especially infrastructures, geotechnical engineering and related research experience. His areas of expertise include foundation design, soil mechanics, soil structure interaction, supervision, and construction of infrastructures.



### **MR. YASUHIRO MASHIKO**

Director of Alliance Development Office  
Innovation Promotion Sector  
Panasonic Corporation-Japan  
[mashiko.yasuhiro@jp.panasonic.com](mailto:mashiko.yasuhiro@jp.panasonic.com)

Yasuhiro Mashiko is director of alliance development office, corporate innovation sector in Panasonic. Before taking the current office, he was a managing officer in charge of software strategy and quality affairs of CNS company, a business sector in Panasonic. He has been working for Panasonic since 1983. He led many innovative projects of public and private system. They include business systems, transportation management systems and security management systems. He administered business divisions and overseas business operations as director. His interests include software engineering and project management. He studied computer science as a visiting research faculty at University of Maryland from 1991 to 1993. He received a BS degree from University of Tokyo.

# SPEAKERS PROFILE

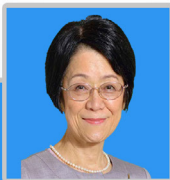
## TECHNOLOGY TRANSFER



### **DR. MARIA CYNTHIA ROSE B. BAUTISTA**

Vice President for Academic Affairs  
Office of the Vice-President for Academic Affairs  
University of the Philippines  
[ovpaa@up.edu.ph](mailto:ovpaa@up.edu.ph)

Dr. Maria Cynthia Rose B. Bautista is the current Vice President for Academic Affairs of the University of the Philippines. A Professor of Sociology, she is former Dean of the UP College of Social Sciences and Philosophy, and Commissioner of the Commission on Higher Education. Bautista served on the advisory or governing boards of different institutions, and sat in the Executive Committee of the ASEAN Quality Assurance Network. Bautista obtained her BA degree in Sociology from UP Diliman and her MS and PhD degrees in Sociology at the University of Wisconsin, Madison. Her awards include the National Academy of Science and Technology's Outstanding Young Scientist Award, the Ten Outstanding Women in the Nation's Service and the National Research Council of the Philippines' Achievement Award.



### **DR. KAYO INABA**

Executive Vice-President  
Gender Equality, International Affairs, and Public Relations  
Kyoto University  
[ipromo@mail2.adm.kyoto-u.ac.jp](mailto:ipromo@mail2.adm.kyoto-u.ac.jp)

Dr. Inaba served as dean of Graduate School of Biostudies from Apr 2003 to Mar 2005, and director of the Center for Women Researchers in Kyoto University from 2007 to 2014. She received her doctorate in science. She received the L'Oréal-UNESCO for Women in Science Award 2014 and Medal with Purple Ribbon 2016. Dr. Inaba is known for her work on demonstrating the importance of dendritic cells, which act as "sentinels" of the immune system. She has also shown that these cells loaded with antigen in vitro stimulate immune responses by reinfusing into the body. In addition, she developed a method to generate dendritic cells from bone marrow precursor cells - a key advance that could lead to a new type of anti-cancer treatment or open a new path for cellular therapy.



# SPEAKERS PROFILE

## TECHNOLOGY TRANSFER



### MR. TRAN TRI DUNG

Innovation & Entrepreneurship Specialist  
Swiss Entrepreneurship Program-Vietnam  
vebimo@gmail.com

Mr. Tran Tri Dung has been provided Vietnam's upper stratum private enterprises with business advisory services since 2004, focusing on investment, financial planning, and globalization & innovation strategy. He is currently a member of JEAustin Associates Inc. Team implementing the Swiss Government-funded Entrepreneurship Program (SwissEP) in Vietnam. SwissEP supports supply side players of startup ecosystem including mentors, accelerators & incubators, and angel investors. He was the Vietnam Manager of the U.S. Department of State funded Tigers@Mekong that is to accelerate entrepreneurship ecosystems in Burma, Cambodia, Laos, Thailand, and Vietnam. He also supported regional mentors and monitored progress of Tigers@Mekong.



### H.E. DR. SUVIT MAESINCEE

Minister  
Ministry of Science and Technology  
Thailand

H.E Dr. Maesincee is the current Minister of Thailand's Ministry of Science and Technology. With a Ph.D. in Marketing from the USA and an MBA degree from Thailand, he has held various posts including:

- Minister Attached to the Prime Minister's Office
- Deputy Minister of Commerce
- Board of Director, Thai Oil Public Co. Ltd.
- Board of Director, Krungthai Card Public Co. Ltd.
- Vice Minister for Commerce, Ministry of Commerce
- Vice Minister of the Office of the Prime Minister
- Advisor to the Deputy Prime Minister (Dr.SomkidJatusripitak)
- Senior Consultant, L.E.K. Consulting
- Senior Consultant, Booz Allen & Hamilton

# SPEAKERS PROFILE

## TECHNOLOGY TRANSFER



### **DR. CHULARAT TANPRASERT**

Vice President

National Science and Technology Development Agency-Thailand

[chularat@nstda.or.th](mailto:chularat@nstda.or.th)

Dr. Chularat TANPRASERT is currently an executive vice president of National Science and Technology Development Agency (NSTDA), Ministry of Science and Technology of Thailand. During 1994-2016, she had been a researcher at the National Electronics and Computer Technology Center under NSTDA executing many successful projects. Her research interests include Big Data Analytics, AI, Data warehousing, Database System, and ANNs. She graduated Ph.D. in Computer Science in 1994 from University of Louisiana at Lafayette, U.S.A. and B.S. (Mathematics, 1st class honor) in 1989 from Chulalongkorn University, Thailand. Some of her success projects are Missing Persons Registration and I am Alive Systems for Tsunami in Thailand (2004), Agri-Map Online, SizeThailand, Ya&You, PHR, and Thai OCR System.



### **PROF. ZAKRI ABDUL HAMID**

Science Advisor to the Prime Minister of Malaysia

Office of the Science Advisor

Malaysian Government

[zakri@pmo.gov.my](mailto:zakri@pmo.gov.my)

Professor Zakri is the Science Advisor to the Prime Minister of Malaysia. He was named as the first Chair of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES). In 2013, he was appointed as a member of the Scientific Advisory Board to the UN Secretary General. In 2016, Co-Chairman of STI Advisory Board of the UN Economic and Social Commission for Asia and the Pacific (ESCAP). Educated in Malaysia and the United States, specializing in plant genetics, Dr. Zakri has long experience of negotiations in international biodiversity governance. His achievements have been recognized by being awarded one of the world's most prestigious environment prizes, the Zayed International Prize for the Environment 2014 for Scientific and Technological Achievement. He is one of the Top 100 People in the Advanced Bioeconomy 2017 (#31) by the US-based "Biofuel Magazine (2017)".

# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



**PROF. DR. KAZUHITO HASHIMOTO**

President  
National Institute for Materials Science (NIMS)

Kazuhito Hashimoto is currently the President of National Institute for Materials Science and a Professor of Policy Alternative Research Institute at the University of Tokyo. His research interest is a physical chemistry contributing to energy conversion and environmental purification. His contributions to science are described in more than 570 peer reviewed papers, and more than 200 reviews and book chapters. His contributions to technology and engineering are described in about 100 issued Patents, more than 20 of which are in use. He received many awards including the 2004 Prime Minister Award and the 2006 Imperial Award/Japan Invention Award. He is also an Executive Member of Council for Science, Technology and Innovation at Cabinet Office, Government of Japan.



**MR. HIROYUKI SUEMATSU**

Director-General  
Industrial Science and Technology Policy and Environment Bureau  
Ministry of Economy, Trade and Industry

Mr. Suematsu currently holds the position of Director-General of the Industrial Science and Technology policy and Environment Bureau at the Ministry of Economy, Trade and Industry (METI), where he is responsible for industrial science and environment policy with the goal of strengthening industrial competitiveness. He represented METI during the COP21 negotiations. Prior to joining to METI in 2016, he developed a diverse background in forestry and the environment, in addition to renewable energy at the Ministry of Agriculture, Forestry and Fisheries (MAFF) which he joined in 1983. MAFF also gave him the opportunity to develop national policies and strategies for bio fuel.

# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



### DR. DANILO LACHICA

President

Semiconductor and Electronics Industries in the Philippines Foundation Inc.  
[mabelle.delecruz@seipi.org.ph](mailto:mabelle.delecruz@seipi.org.ph)

Dr. Dan C. Lachica is the current President of Semiconductor and Electronics Industries in the Philippines, Inc. (SEIPI), the association representing the electronics industry in the Philippines, which makes up US\$29B (roughly 51% of the country's total exports) and directly employs 344,449 employees.

Dan has over 30 years of senior management experience in semiconductors, electronics and consumer goods manufacturing, 16 of which were in front-end semiconductor wafer fabs in Silicon Valley. Prior to his early retirement from the Lopez Group of companies, he was a SVP at the First Philippine Holdings who was responsible for the electronics/solar manufacturing businesses. He had been the Philippine expat Managing Director of Iomega Corporation of Utah. He also held leadership positions at Hewlett Packard in California, Motorola in Arizona, American Microsystems Inc. in Idaho, and Procter & Gamble in the Philippines.

Dan is an expert in world-class initiatives such as Six Sigma (Black Belt & U.S. IQPC Judge), Balanced Score Card and Total Productive Maintenance. A licensed Electrical Engineer, he has received several awards including the Dr. Joseph Juran National Medal from the Philippine Society for Quality and Outstanding Electrical Engineer from the University of the Philippines (U.P.). He has BSEE from U.P. Diliman, an MBA from San Jose University in California, and a DBA (With Distinction) from De La Salle University.



### DR. MOHD YUSOFF SULAIMAN

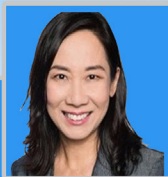
President and CEO

Malaysian Industry-Government Group for High Technology  
[yusoff@might.org.my](mailto:yusoff@might.org.my)

Dr. Mohd Yusoff Sulaiman is the President & Chief Executive Officer of the Malaysian Industry-Government Group for High Technology (MIGHT) an agency under the Prime Minister's Department. MIGHT is a think-and-do tank that specializes in high technology industry strategy and implementation. Mohd Yusoff specializes in Technology Management and holds a Ph.D. from Universiti Teknikal Melaka, Malaysia and an M.Sc. from the University of Wales, UK. He is a Fellow of the ASEAN Academy of Engineering & Technology (FAAET), Academy of Sciences Malaysia (F.ASc) and the Chartered Institute of Logistics and Transport (F.CILT).

# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



**DR. LIMIN HEE**

Director of Research  
Ministry of National Development, Centre for Liveable Cities  
[HEE\\_Limin@mnd.gov.sg](mailto:HEE_Limin@mnd.gov.sg)

Dr Limin Hee is Director of Research at Singapore's Centre for Liveable Cities where she focuses on research strategies, content development and international collaborations. Recognized as a creative leader in her field, she has been a sought-after keynote-speaker, moderator and panelist at international symposiums and events. Dr Hee's research focuses on urban liveability and sustainability and their agenda for architecture and public space. She has been the recipient of several accolades and her work on cities has been widely published. Recent book publications include Constructing Singapore Public Space and Future Asian Space. She obtained her Doctor of Design from Harvard University Graduate School of Design and Master of Arts (Architecture) from the National University of Singapore.



**DR. YUICHIRO ANZAI**

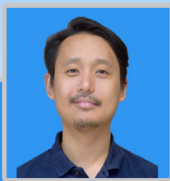
Senior Advisor for Japan Society for the Promotion of Science (JSPS)  
Director for Center for Science Information Analysis  
Japan Society for the Promotion of Science  
[anzai@jps.go.jp](mailto:anzai@jps.go.jp)

Yuichiro Anzai is President of the Japan Society for the Promotion of Science, Japan's representative research funding agency. Dr. Anzai also serves as a member and Chairperson of the Japanese National Commission for UNESCO. From 2001 to 2009, Dr. Anzai was President of Keio University. Prior to that, he was Dean of the School of Science Technology (1993 to 2001) and Professor of Computer Science (starting in 1988) at Keio. He also served as Chairperson of the Central Council for Education. After receiving his PhD from Keio in 1974, Dr. Anzai was a postdoctoral research fellow (1976 to 1978) and visiting assistant professor (1981 to 1982) at Carnegie Mellon University, performing a research on human and machine learning in the Department of Psychology and the School of Computer Science.



# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



**ATTY. JUAN PAOLO T. VILLONCO**

CEO

Ignition Innovations, Inc.

paolo@ignition.biz

Atty. Juan Paolo Villonco has the distinction of being the FIRST Filipino graduate from Stanford Law School and graduated with honors in 2014. He also holds a law and economics degree from Ateneo University in the Philippines. He is a Legal Specialist in Innovation Law, Intra Corporate Litigation and Energy. He began his career as a Lawyer in the prestigious Siguion Reyna Montecillo and Ongsiako Law Firm as a member of the Litigation and Corporate departments. He is currently the CEO of Ignition, the first Venture Studio in the Philippines. It is a one stop providing business solutions to its community of entrepreneurs and innovators. He is also the Director of Business Development of the TIPCO group of companies which has interests in Energy and the development of Industrial estates.



**DR. KATSUMI EMURA**

Executive Vice President, Chief Technology Officer and Member of the Board

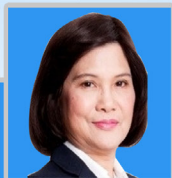
NEC Corporation

k-emura@ap.jp.nec.com

Since joining NEC as a researcher at the Opto-Electronics Research Laboratories in 1982, Dr. Emura has held numerous leadership positions, including head of product planning and business development for transport products and general manager of NEC's Research Planning Division. In 2010, Dr. Emura was promoted to associate senior vice president of NEC Corporation and executive general manager of the Central Research Laboratories. Dr. Emura was named CTO of the company in 2016. Dr. Emura was a visiting researcher at Bellcore (USA) from 1987 to 1988. In 1992, he earned a Ph.D. in electrical engineering from the University of Tokyo. He is currently a member of Expert Panel of the Council for Science, technology and Innovation (CSTI).

# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



### **DR. WILAIPOORN CHETANACHAN**

Director  
Corporate Technology Office  
The Siam Cement PLC Thailand  
[wilapoc@scg.com](mailto:wilapoc@scg.com)

Dr. Wilaiporn Chetanachan is Director of Corporate Technology Office, SCG. She oversees the design and implementation of corporate-wide innovation management system that includes the management of R&D process, project portfolio, R&D financial and return monitoring, alliance development and IP. The system enhances innovation and R&D commercialization. With a strong motivation and keen business mind, she leads in transforming the development of new growth initiatives and new technology business through Strategic Business Review process. She has secured significant investment for expansion in new venture. She holds a Ph.D. in Organic Chemistry, University of Cincinnati, USA. She attended Harvard's Advanced Management Program and Stanford's Leading Change and Organizational Renewal Program.

# SPEAKERS PROFILE

## ARTIFICIAL INTELLIGENCE AND SOCIETY 5.0



### **PROF. DR. BAMBANG SUBIYANTO**

Acting Chairman

Indonesian Institute of Science-Indonesia

[dr.bambang.subiyanto@gmail.com](mailto:dr.bambang.subiyanto@gmail.com)

2017: Acting Chairman of the Indonesian Institute of Sciences (LIPI); 2016 - Now: Vice Chairman of the Indonesian Institute of Sciences (LIPI); 2014-2016: Deputy Chairman for Scientific Services of LIPI; 2008-2014: Director of the Center for Innovation of LIPI; 2002-2008: Director of Research and Development Unit for Biomaterial of LIPI.



### **H.E. MR. HOUMPHANH INTHARATH**

Vice Minister

Ministry of Science and Technology-Laos

[hp.intha@gmail.com](mailto:hp.intha@gmail.com)

Name and Family: Houmphanh INTHARATH Date of Birth: 17/12/1954  
Place of Birth: Ban Xieng Thong, LouangPrabang District/Province Family  
Status: Married Present Government Occupation: Vice Minister, Ministry  
of Sciences and Technology Graduated : 1985 Technical Superior Certificate of Post and Telecommunication Centre, Vientiane 1985 Master of Science of Odessa Polytechnic institute, former of Soviet Union 2001-2008 Director General, Lao Telecommunication Company (LTC) 16/07/2008 -10/10/2011 Vice President, National Authority for Sciences and Technology(NAST) 11/10/2011 up to now Vice Minister, Ministry of Sciences and Technology (MoST)

# SPEAKER PROFILE



## **DR. ROWENA CRISTINA L. GUEVARA**

Undersecretary for Research and Development  
Department of Science and Technology

ROWENA CRISTINA L. GUEVARA is the Undersecretary for R&D at the Department of Science and Technology. She is a Professor of Electrical Engineering at the University of the Philippines Diliman, specializing in speech and audio signal processing, time-frequency analysis and synthesis, and artificial intelligence. Her BS Electrical Engineering and MSEE degrees were earned at the UP Diliman, and PhDEE from the University of Michigan in Ann Arbor. She served as Dean of the UP College of Engineering (2004-2010) and Executive Director of the DOST Philippine Council for Industry, Energy and Emerging Technology R&D (2012-2015). She has been the recipient of several awards in engineering and education, including the 2010 Metrobank Foundation Search for Outstanding Teachers of the Philippines.

# PARTICIPANT'S

## C A M B O D I A



### MS. MEAS RATHMONY

Deputy Secretary General  
General Secretariat of the National Science and Technology Council (NSTC)  
Ministry of Planning, Kingdom of Cambodia  
rathmony\_meas@hotmail.com

## I N D O N E S I A



### DR. GATOT DWianto

Deputy Chairman For Technology Policy Assessment  
Agency for the Assessment and Application of Technology (BPPT)  
deputi-pkt@bppt.go.id



### DR. TATACIPTA DIRGANTARA

Professor  
Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung (ITB)  
tdirgantara@pusat.itb.ac.id



### DR. IRA NURHAYATI DJAROT

Director of Research & Development System  
Ministry of Research, Technology and Higher Education  
ira@ristekdikti.go.id



### PROF. KADARSAH SURYADI

Rector  
Institut Teknologi Bandung (ITB)  
kadarsah@pusat.itb.ac.id



### MR. IWAN HERYAWAN

Head of Competence Improvement and Facilitation  
Centre for Development and Empowerment of Teacher and Education Personnel in Science



### MR. BAMBANG HERMAWAN

Head of Program  
Centre for Development and Empowerment for Teacher and Education Personnel in Science



### DR. SEDIONO ABDULLAH

Centre Director  
Centre for Development and Empowerment for Teacher and Education Personnel in Science



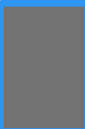
# PARTICIPANT'S

## J A P A N



### MR. TAKASHI ISHIHARA

Executive Director  
Japan External Trade Organization (JETRO) - Manila  
Takashi\_Ishihara@jetro.go.jp



### MR. ICHIRO IKEDA

Chief  
Strategy Office and Executive Secretariat  
NIMS



### MR. AINSLIE KERR

Specialist Administrative Staff  
International Affairs Division, Kyoto University  
ipromo@mail2.adm.kyoto-u.ac.jp



### MR. TARO SONOBE

Deputy Director (ASEAN Center)  
University Research Administrator (URA), Kyoto University  
sonobe.taro.7m@kyoto-u.ac.jp



### MR. RAIKO FUJIOKA

CEO  
GreatEnglish Corporation (QQEnglish)  
raikof@msb.biglobe.ne.jp



### MR. KENJI NAKANISHI

President and CEO  
DBP-Daiwa Capital Markets Phils., Inc.  
kenji.nakanishi@dbpdaiwacm.com.ph



### PROF. JUNICHI MORI

Visiting Professor, Professor Emeritus  
Banking Department, University of Economics-The University of Danang; Kyoto University  
mori.junichi@gmail.com



### MRS. MICHIE MORI

Japan

# PARTICIPANT'S

## J A P A N



### MR. YOSHIFUMI SAKAGUCHI

President  
NEC Telecom Software Philippines, Inc.  
cnunez@ntsp.nec.co.jp



### MR. MICHAEL ARCO

Assistant General Manager  
NEC Telecom Software Philippines, Inc.  
cnunez@ntsp.nec.co.jp



### MR. HIROSHI YOSHIDA

Managing Director  
Sprobe Inc.  
yoshida.h@sprobe.com



### MR. SEIGO BABA

Chief Representative  
Japan Bank for International Cooperation, Representative Office in Manila  
y-katakura@jbic.go.jp



### MR. KAZUHIKO ICHIZAWA

SVP - Plant Manager  
Taiheiyo Cement Philippines, Inc.  
kazuhiro\_ichizawa@taiheiyo-cement.com.ph



### MR. RYOJI KUDO

President  
KGS Corporation  
kudo@kgs-jpn.co.jp



### MR. BAJARIAS ROGER

Factory Manager  
KGS Corporation  
roger@kgs-phil.com

# PARTICIPANT'S

## J A P A N



### **MR. TAMACA EDWARD**

Assembly in Charge  
KGS Corporation  
james@kgs-phil.com



### **MR. GABUCAN ELVIS**

Management Representative  
KGS Corporation  
ryan@kgs-phil.comryan@kgs-phil.com



### **MR. HIROKI NAKATSUKA**

General Manager  
Sumitomo Mitsui Banking Corporation Manila Branch



### **MR. NORIKAZU FURUNO**

Department Head  
Sumitomo Mitsui Banking Corporation Manila Branch  
norikazu\_furuno@ph.smbc.co.jp



### **MS. EMI SHIMADA**

Consultant  
Nomura Research Institute Singapore Pte. Ltd. Manila Branch



### **MS. RIA ARCEO**

Consultant  
Nomura Research Institute Singapore Pte. Ltd. Manila Branch  
m-arceo@nri.co.jp



### **MR. YUKIHIKO KAZAO**

Director General  
STS forum  
yukihiro.kazao@stsforum.org

# PARTICIPANT'S

## J A P A N



### MR. SHUICHI FUKUDA

Secretariat  
STS forum  
shuichi.fukuda@stsforum.org



### MR. YOSHIO WADA

Chief Representative  
JICA Philippines Office  
Wada.Yoshio@jica.go.jp



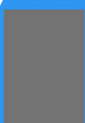
### MS. REIKO YUGUCHI

Administrative Researcher  
International Science and Technology Affairs Division, Science and Technology Policy Bureau  
Ministry of Education, Culture, Sports, Science and Technology (MEXT)



### MR. MITSUYUKI UEDA

Director  
International Science and Technology Affairs Division, Science and Technology Policy Bureau  
Ministry of Education, Culture, Sports, Science and Technology (MEXT)  
ueda@mext.go.jp



### MR. TAKATSUNE ITO

Director  
International Affairs office Industrial Science & Technology Policy  
Ministry of Economy, Trade and Industry (METI)



### MS. HARUKA NAKAGANE

Assistant Chief  
Technology Liaison Department, Innovation Strategy Office, Panasonic Corporation  
nakagane.haruka@jp.panasonic.com



### MR. KOJI MAENO

President  
Philippine Mining Service Corporation

# PARTICIPANT'S

## L A O P D R



### MR. CHITTAPHONG ACKHAVONG

Deputy Director General  
Planning and Cooperation  
Ministry of Science and Technology  
nchittaphong@yahoo.com



### MR. ARAMITH DOUANGMALA

Deputy Director  
Administration Division  
Cabinet of Ministry of Science and Technology  
alamith.dml@gmail.com

## M A L A Y S I A



### ASSOCIATE PROF. DR. SAIFUL ANUAR BIN KARSANI

Associate Professor, Faculty Of Science  
Institute Of Biological Sciences, University of Malaya  
saiful72@um.edu.my



### DR. AHMAD PARVEEZ GHULAM KADIR

Deputy Director General (Research & Development)  
Malaysian Palm Oil Board (MPOB)  
parveez@mpob.gov.my



### DR. ANGELINA YEE

Director (Industry Collaborations/Operations)  
University of Nottingham Malaysia Campus  
Angelina.Yee@nottingham.edu.my



### MS. FERA FIZANI AHMAD FIZRI

Special Officer to the Science Advisor  
Office of the Science Advisor, Prime Minister's Department  
fera@might.org.my



# PARTICIPANT'S

## P H I L I P P I N E S



### **MS. BRENDA L. NAZARETH-MANZANO**

Undersecretary for Regional Operations  
Department of Science and Technology  
dostros2016@gmail.com



### **DR. RENATO U. SOLIDUM JR.**

Undersecretary for Disaster Risk Reduction and Climate Change  
Department of Science and Technology  
rusolidum@phivolcs.dost.gov.ph



### **DR. LEAH J. BUENDIA**

Assistant Secretary for International Cooperation  
Department of Science and Technology  
leahbuendia@yahoo.com



### **ENGR. RAUL C. SABULARSE**

Deputy Director  
Philippine Council for Industry, Energy and Emerging Technology Research & Development (PCIERD)  
raulsabu@gmail.com; raulsabularse@gmail.com



### **DR. JOEL JOSEPH S. MARCIANO JR.**

Acting Director  
Advanced Science and Technology Institute  
info@asti.dost.gov.ph



### **DR. JAIME C. MONTOYA**

Executive Director  
Philippine Council for Health Research & Development (PCHRD)  
jmontoya204@gmail.com



### **DR. REYNALDO V. EBORA**

Executive Director  
Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (PCAARRD)  
oed\_pcaarrd@yahoo.com.ph

# PARTICIPANT'S

## P H I L I P P I N E S



### **MR. JOSE B. PATALINJUG III**

Regional Director

Department of Science and Technology National Capital Region (NCR)

jbpatalinjugiii@ncr.dost.gov.ph



### **DR. ALEXANDER R. MADRIGAL**

Regional Director

Department of Science and Technology Regional Office No. IV-A

alexrmadrigal@yahoo.com



### **ENGR. ROWEN R. GELONGA**

Regional Director

Department of Science and Technology Regional Office No. VI

rrgelonga@yahoo.com



### **ENGR. EDILBERTO L. PARADELA**

Regional Director

Department of Science and Technology Regional Office No. VII

elparade@yahoo.com



### **DIR. ALFONSO P. ALAMBAN**

Regional Director

Department of Science and Technology Regional Office No. X

al.alamban@gmail.com



### **MS. LITA S. SUERTE-FELIPE**

Department Legislative Liaison Specialist

Department of Science and Technology

lita\_suertefelipe@yahoo.com



### **MS. MARIDON O. SAHAGUN**

Director, Planning and Evaluation Service

Department of Science and Technology

mosahagun@dost.gov.ph

# PARTICIPANT'S

## P H I L I P P I N E S



### HON. ELISEO M. RIO JR.

OIC-Secretary  
Department of Information and Communications Technology  
eliseo.riojr@dict.gov.ph



### MA. THERESA SEDERIOSA

Managing Head, Cebu Economic & Business Unit  
Cebu City Government  
cebuinvest1@gmail.com



### DR. ALVIN MARCELO

Director  
Technology Transfer and Business Development Office, UP Manila  
admarcelo@up.edu.ph



### ATTY. LIZA D. CORRO

Chancellor  
University of the Philippines Cebu  
oc.upcebu@up.edu.ph



### DR. ROBERT R. ROXAS

Associate Professor  
Department of Computer Science, University of the Philippines Cebu  
robert.roxas@up.edu.ph



### DR. BENJAMIN M. VALLEJO JR.

Coordinator  
University of the Philippines Cebu, Science and Society Program  
bmvallejo1@up.edu.ph



### MR. VAN OWEN SESALDO

Head  
UP Cebu Information Technology Center  
vmsesaldo@up.edu.ph

# PARTICIPANT'S

## P H I L I P P I N E S



### **MS. ALEGRIA SIBAL-LIMJOCO**

President  
Philippine Chamber of Commerce and Industry  
bslimjoco@gmail.com



### **DR. ALBERTO FENIX**

President, PCCI Human Resources Development Foundation Inc.  
President, Newtech Pulp, Inc.; Ivclar, Inc. and Prudential, Inc.  
Chairman, Fenix Management and Capital, Inc.  
apfenix@gmail.com



### **MR. JESUS VARELA**

Chairman  
Committee on Trade  
Philippine Chamber of Commerce and Industry  
jess.varela@yahoo.com



### **DR. TIMOTHY SENATHIRAJAH**

Chief Technology Officer  
Nokia Philippines  
timothy.senathirajah@nokia.com



### **MS. BETTINA QUIMSON**

Chairman for Committee On Science and Technology  
Philippine Chamber of Commerce and Industry  
arlene.makipagay@philippinechamber.com



### **MR. NICO ANGELO C. PARUNGAO**

Science Research Specialist II  
Philippine Council for Health Research & Development (PCHRD)  
ncparungao@pchrd.dost.gov.ph



### **DR. JONNIFER R. SINOGAYA**

Dean  
College of Science, University of the Philippines Cebu  
jrsinogaya1@up.edu.ph

# PARTICIPANT'S

## P H I L I P P I N E S



### **DR. BRIAN JOHN SARNO**

Chair

Department of Chemistry, University of San Carlos

[bjarno@usc.edu.ph](mailto:bjarno@usc.edu.ph)



### **DR. LOURDES J. CRUZ**

National Scientist,

Professor Emerita, The Marine Science Institute, College of Science, University of the Philippines Diliman

[lourdesj.cruz@gmail.com](mailto:lourdesj.cruz@gmail.com)



### **PROF. EDGARDO D. GOMEZ**

National Scientist,

Professor Emeritus , Marine Science Institute, University of the Philippines

National Academy of Science and Technology of the Philippines

[edgomezph@yahoo.com](mailto:edgomezph@yahoo.com)



### **MR. JASON NIEVA**

Project Leader

UP Cebu Business Incubator for IT, University of the Philippines Cebu

[cebuinit.upcebu@up.edu.ph](mailto:cebuinit.upcebu@up.edu.ph)



### **MR. JEFFREY MONTECILLOS**

Facility Leader

UP Cebu Business Incubator for IT, University of the Philippines Cebu

[jeff.upcebuinit@gmail.com](mailto:jeff.upcebuinit@gmail.com)



# PARTICIPANT'S

## P H I L I P P I N E S



### **DIR. RICHARD P. BURGOS**

Director

Science and Technology Information Institute

[richardburgos.stii@gmail.com](mailto:richardburgos.stii@gmail.com)



### **MR. DONALD AMADO M. CABALLERO**

Committee Secretary

Committee on Science and Technology, House of Representatives

[dax3808@yahoo.com](mailto:dax3808@yahoo.com)



### **MS. JULIE M. QUIROGA**

PCCI Regional Governor, North Sector

J. Chemical Lab Inc.

[j\\_chemie@yahoo.com](mailto:j_chemie@yahoo.com)



### **MS. NORA L. LACUNA**

Committee Chairman

Corporate Social Responsibility, Philippine Chamber of Commerce and Industry

[normine@gmail.com](mailto:normine@gmail.com)

# PARTICIPANT'S

# SINGAPORE



## MR. MASAKI SATO

Director  
Singapore Office, Japan Science and Technology Agency  
m5sato@jst.go.jp



## MR. ZHOU YIMIN

Senior Assistant Director  
Ministry of National Development, Centre for Liveable Cities  
ZHOU\_Yimin@mnd.gov.sg



## MR. JACINTO SELORIO

Manager  
JTEC  
salessupport@jeolasia.com.sg



## MR. EUGENE WEE

Senior Vice President  
A\*STAR (Agency for Science, Technology and Research)  
Eugene\_Wee@etpl.sg

# PARTICIPANT'S

# T H A I L A N D



## **DR. SIRIRURG SONGSIVILAI**

Secretary General

National Research Council of Thailand (NRCT)

sirirurg@nrct.go.th



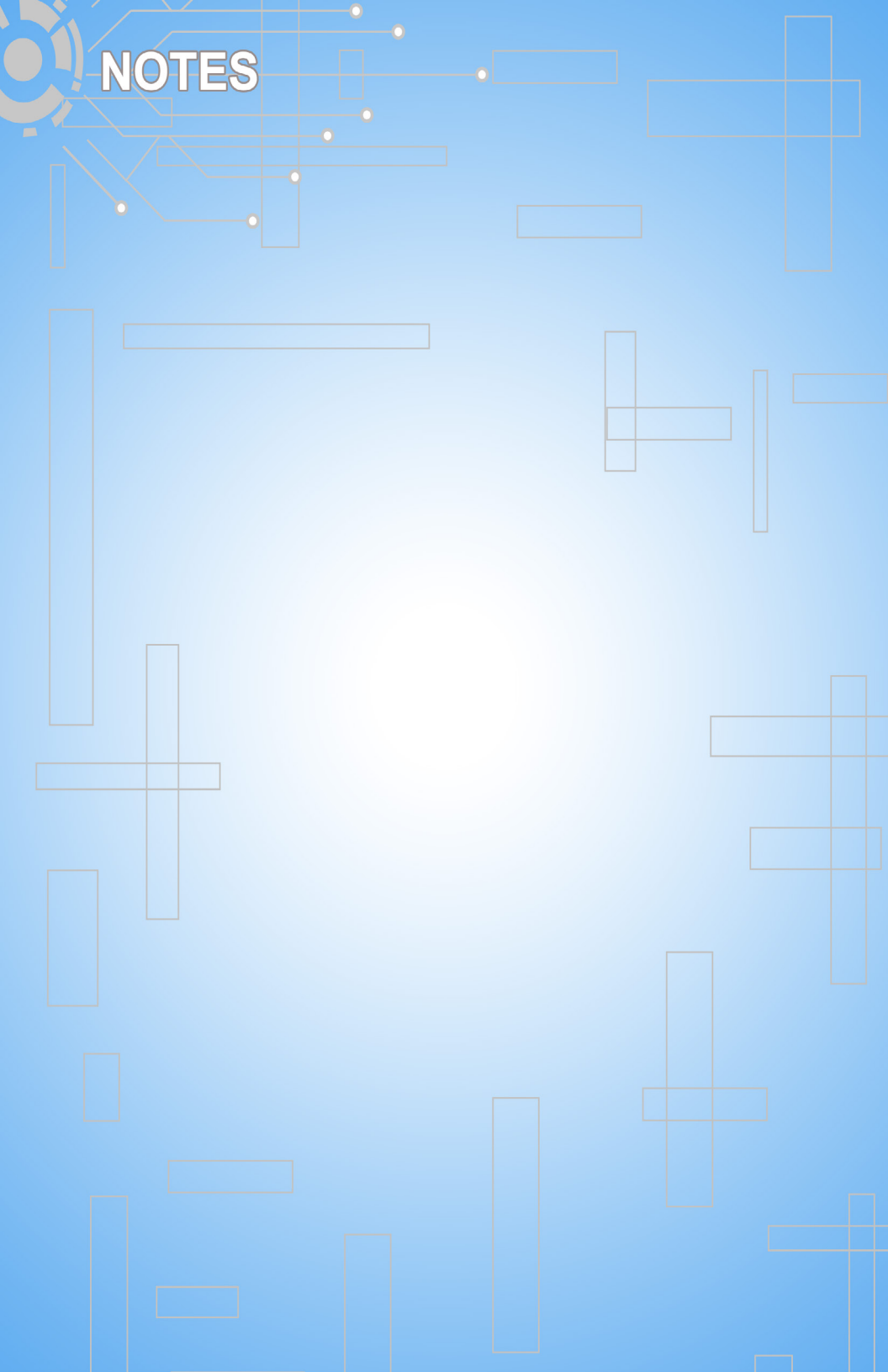
## **ASSISTANT PROF. DR. THITIPONG TANPRASERT**

Dean

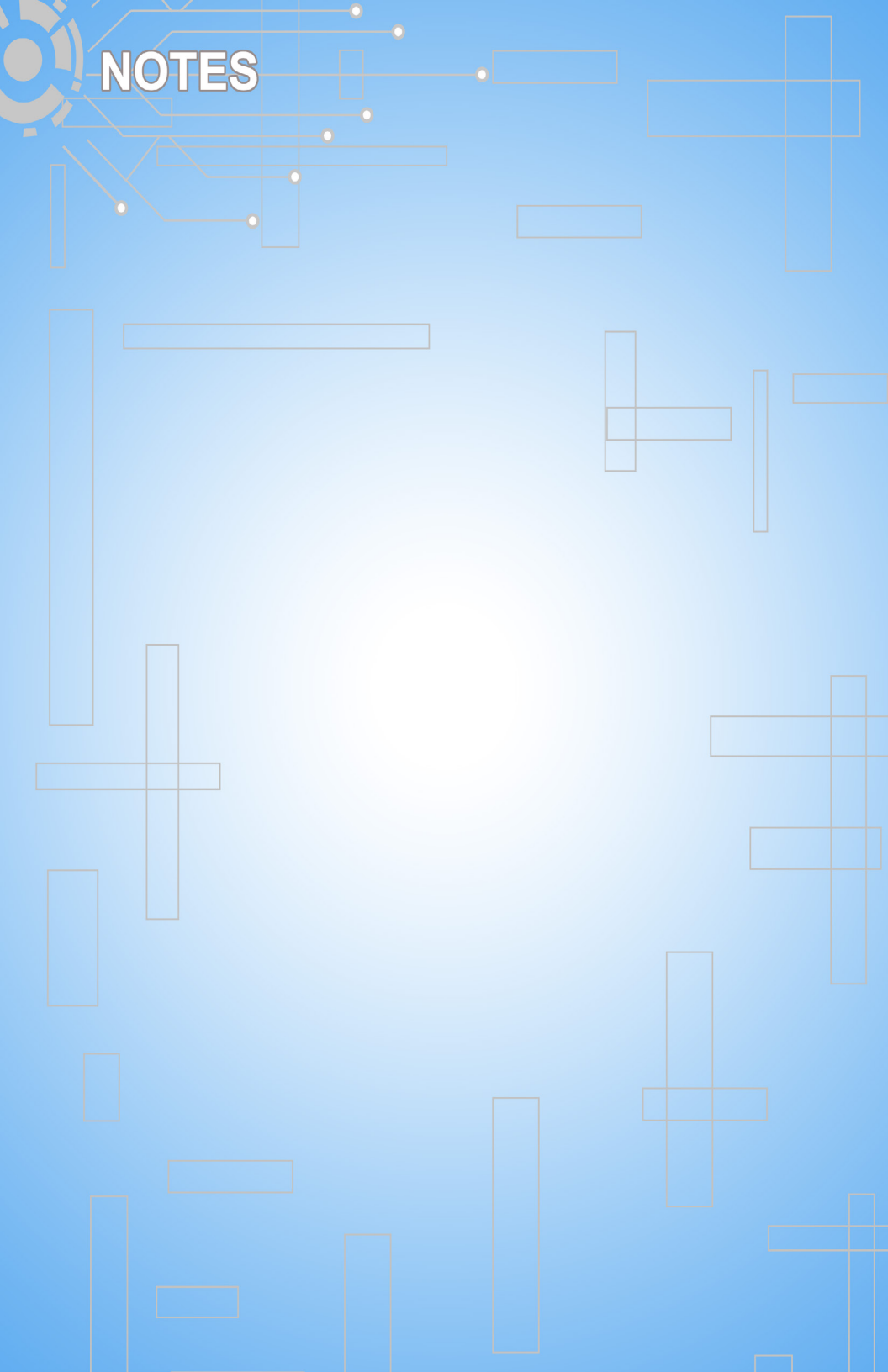
Faculty of Science and Technology, Assumption University, Thailand

Field of Expertise : AI, Machine Learning, Artificial Neural Networks, VLSI

thitipong@scitech.au.edu

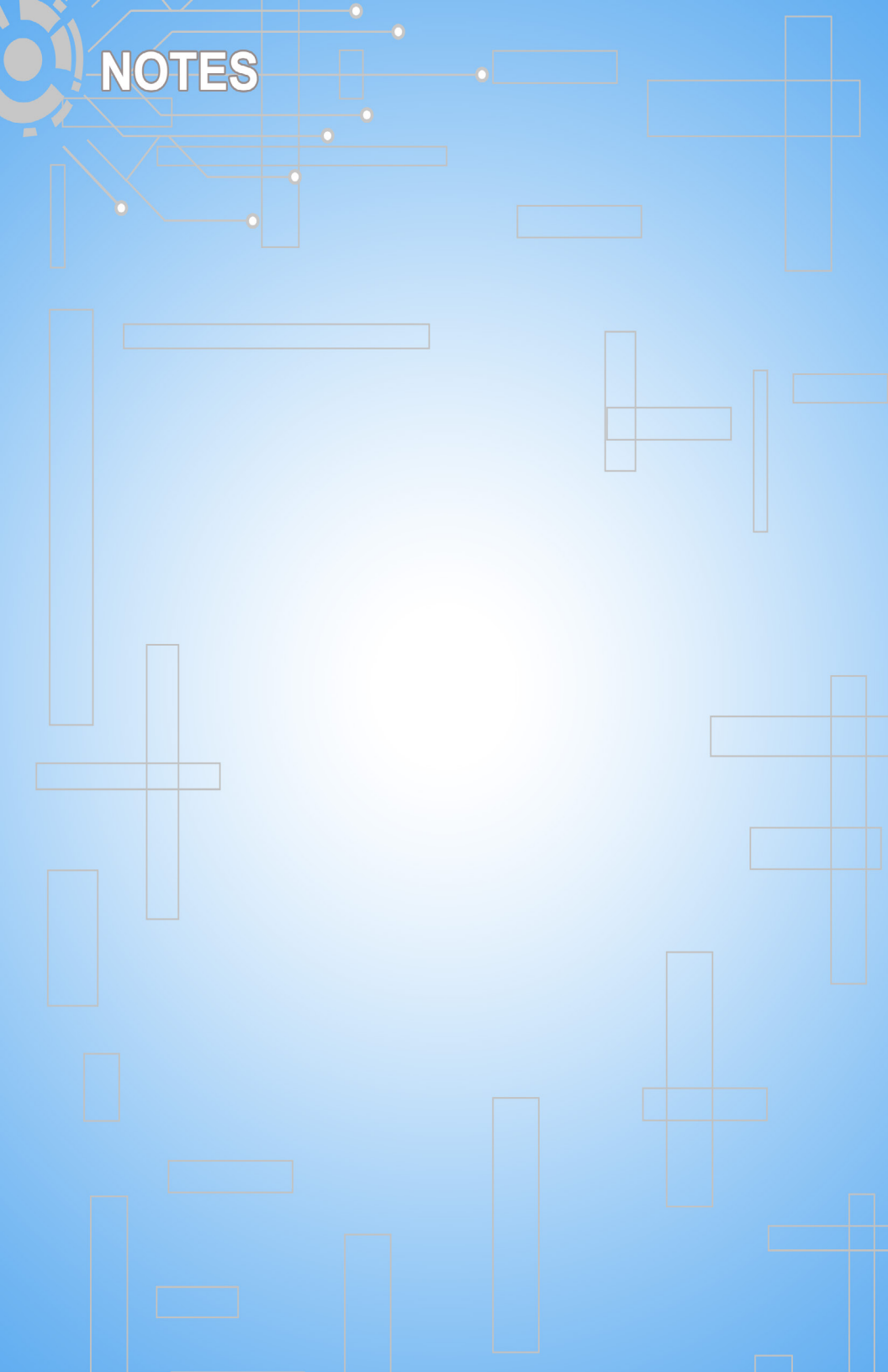


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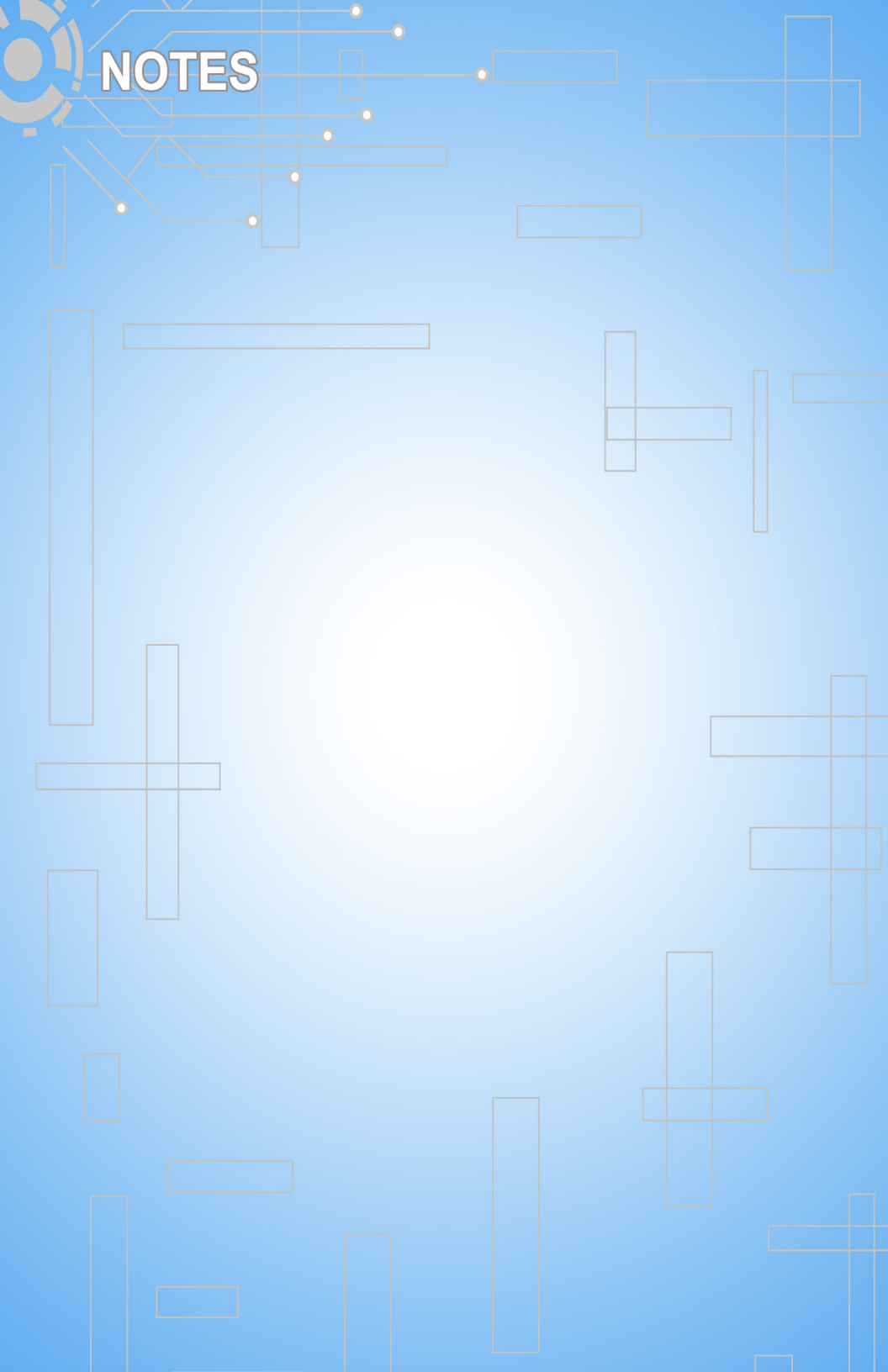


# NOTES





# NOTES



# NOTES

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