

ASEAN Science Leadership Program (ASEAN SLP)

Summary Report of the training workshop for the first ASEAN SLP fellows

June 9-12, 2016



This report is to provide the summary of the general information, activities, outcome arising out of the training workshop of the first ASEAN SLP.

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1. Background

The ASEAN SLP Part 1 was successfully launched at Bangsan Heritage Hotel, Chonburi, Thailand between June 9 and June 12, 2016. This pioneer ASEAN SLP is the project corresponding to the findings of the Global State of Young Scientists-ASEAN (GloSYS-ASEAN) 2015 survey, conducted in four selected ASEAN member states where the speed and quality of the development of science capacity among ASEAN depend not only on infrastructure and the technical training of people, but is intimately linked to the quality of leadership to lead change.

The joint initiative of ASEAN SLP by the Global Young Academy (GYA) and the National Science and Technology Development Agency (NSTDA), aims to grow mid-career ASEAN academics in the areas of thought leadership, team management and research development, with the intention of enabling them to contribute to the development of a new paradigm for science in ASEAN, focused on its contribution to solving the complex issues facing both ASEAN and the global community.

The ASEAN SLP is based on experiences with the Africa Science Leadership Program, which is developed jointly by the University of Pretoria (South-Africa) and the Global Young Academy (GYA) and is supported by the Robert Bosch Foundation (Germany). Initiators/developers of the Science Leadership Programs are Prof. Bernard Slippers (South-Africa, former GYA co-chair), Prof. Rees Kassen (Canada, former GYA co-chair), and Dr. Eva Alisic (Australia, former GYA co-chair), and Dr. Orakanoke Phanraksa (as an initiator for this ASEAN SLP and current GYA co-chair). The ASEAN SLP is designed and conducted by the Leopold Leadership Program at Stanford University and the specialist facilitation company KnowInnovation with co-funding supports from the National Science, Technology, and Innovation Policy Office (STI), National Science and Technology and Development Agency (NSTDA), and PTT Public Company Limited.

2. Fellows, trainers, provocateur, and mentors

The first batch of selected fellows included 18 outstanding scientists from five ASEAN countries namely Malaysia, Indonesia, the Philippines, Vietnam, and Thailand. They represent both basic and applied sciences, as well as spanning across social sciences and humanities disciplines.

For a detailed list of the fellows, see Appendix A.

Trainer from KnowInnovation

Mrs. Maggie Dugan

Dr. Edward Rubesch, University of the Thai Chamber of Commerce

Provocateur

Dr. Yongyuth Yuthawong, former deputy Prime Minister, Thailand

Mentors

Dr. Eva Alisic, Monash University (former Co-Chair of the GYA)

Dr. Numpon Mahayotsanun, Khon Kaen University (Chairperson of the Thai Young Scientists Academy, TYSA)

Dr. Orakanoke Phanraksa, NSTDA (Co-Chair of the GYA)

Mentor assistant

Dr. Wibool Piyawattanametha, King Mongkut's Institute of Technology Ladkrabang, KMITL (GYA alumni)

3. Program

The program implemented was based on the African Science Leadership Program (ASLP) with improvements discussed during regular online meetings between the facilitators and the ASEAN SLP management team. The ASEAN SLP management team includes Eva Alisic (former GYA Co-Chair, Monash University), Edward Rubesch (University of Commerce, Thailand), and Orakanoke Phanraksa, (GYA Co-Chair from NSTDA).

This year, 18 outstanding young scientists from five ASEAN countries participated in the program. The scientists represent basic and applied sciences, and span a wide variety of disciplines including the social sciences and humanities. The program started on June 9, with a three-day intensive workshop. The fellows dived deeply into topics such as small clinic on creative skills that enhance collaboration, inspiration on leading for future impact, reflections on what is leadership, and what it might be, as well as thoughts on the leadership problems and routine challenges encountered.

June 9, 2016 (Thursday)

The fellows were welcomed and the program began with introduction on the art of productive questioning, in the context of re-defining problems as challenges. This aimed to promote the "open minded" and "thinking process" among the fellows which is crucial for fellows who have to work with people from different disciplines. The evening session was the highlight where the fellows were divided into four groups. Each group was asked to draw and paint, based on the theme and written instruction given at each table. No one was allowed to talk. Each group was asked to rotate to new table where they had to work on the painting with the different instructed theme, which was left unfinished by the previous group. The objective of this exercise was to make known among the fellows to deal with the existing conditions when they are given a task in a specific environment without altering the objective/aim set.

June 10, 2016 (Friday)

On the second day of workshop, the talk of the first session was delivered by the Former Deputy Prime Minister of Thailand, Prof. Yongyuth Yuthavong. Dr. Yuthavong inspired the fellows with his talk on “Science leaders, the blind leading the blind, help turn darkness to light.” The fellows were asked to reflect on the steps that lead them to their current positions. Then, they continued to document challenges facing science in ASEAN and started the process of identifying common themes that emerged. Creative and collaborative exercises guided fellows to cluster challenges into groups for potential projects. Fellows were free to select projects of their interest and to form groups around the projects. Recurring rounds of discussion, presentation, and feedback followed. The day’s sessions employed an experimental approach to learning about group management, communication tools, and presentation skills. Fellows were requested to complete a questionnaire before the commencement of the workshop and the results of the survey were distributed during the session. The answers profiled each fellow according to a creative and management preference type with brief description. The analysis findings aimed to enhance the personal understanding among the fellows about their preference of management type, and the subsequent strengths and possible pitfall to observe.

June 11, 2016 (Saturday)

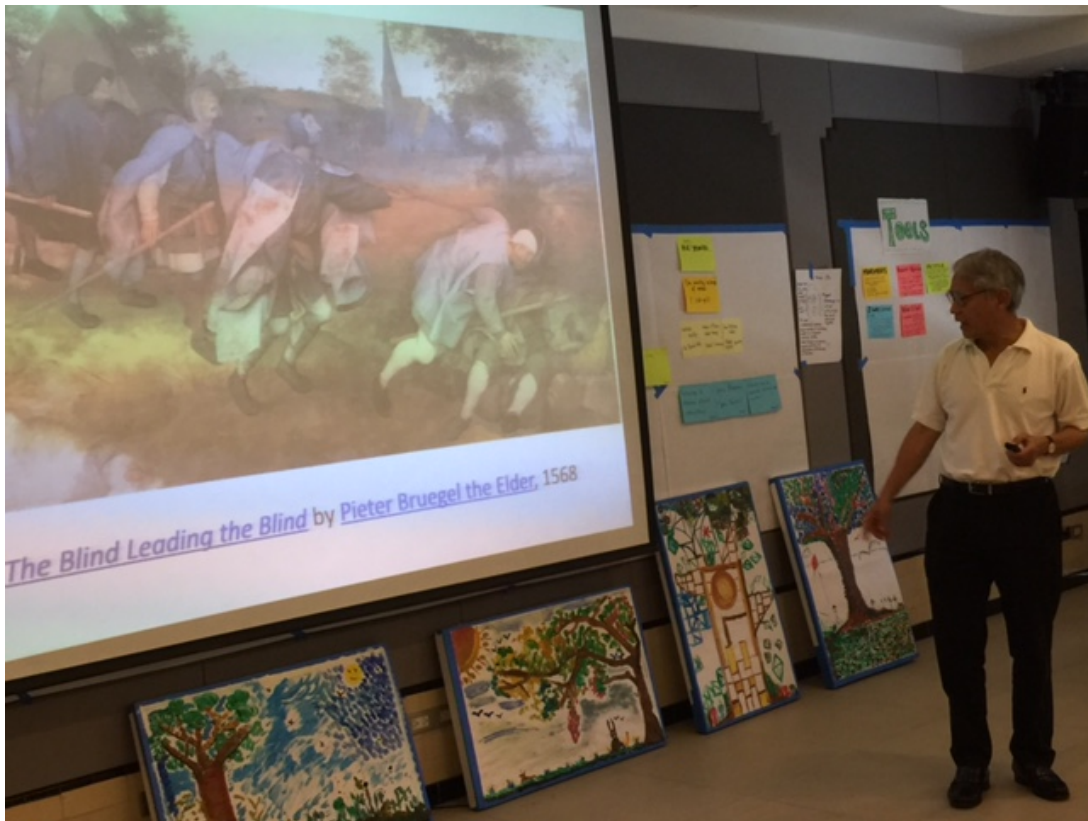
The groups continued to develop their projects while obtaining feedback from mentors and other fellows. At the end of the day, all fellows came up with their group projects to be carried out the next twelve months.

June 12, 2016 (Sunday)

Having gone through the three comprehensive days of training, the fourth day was devoted to brainstorming and planning for a draft roadmap of the ASEAN young scientists.

Itinerary of the program is presented in Appendix B.

Photos from the workshop



Invited provocateur: former Deputy Prime Minister, Dr. Yongyuth Yuthavong

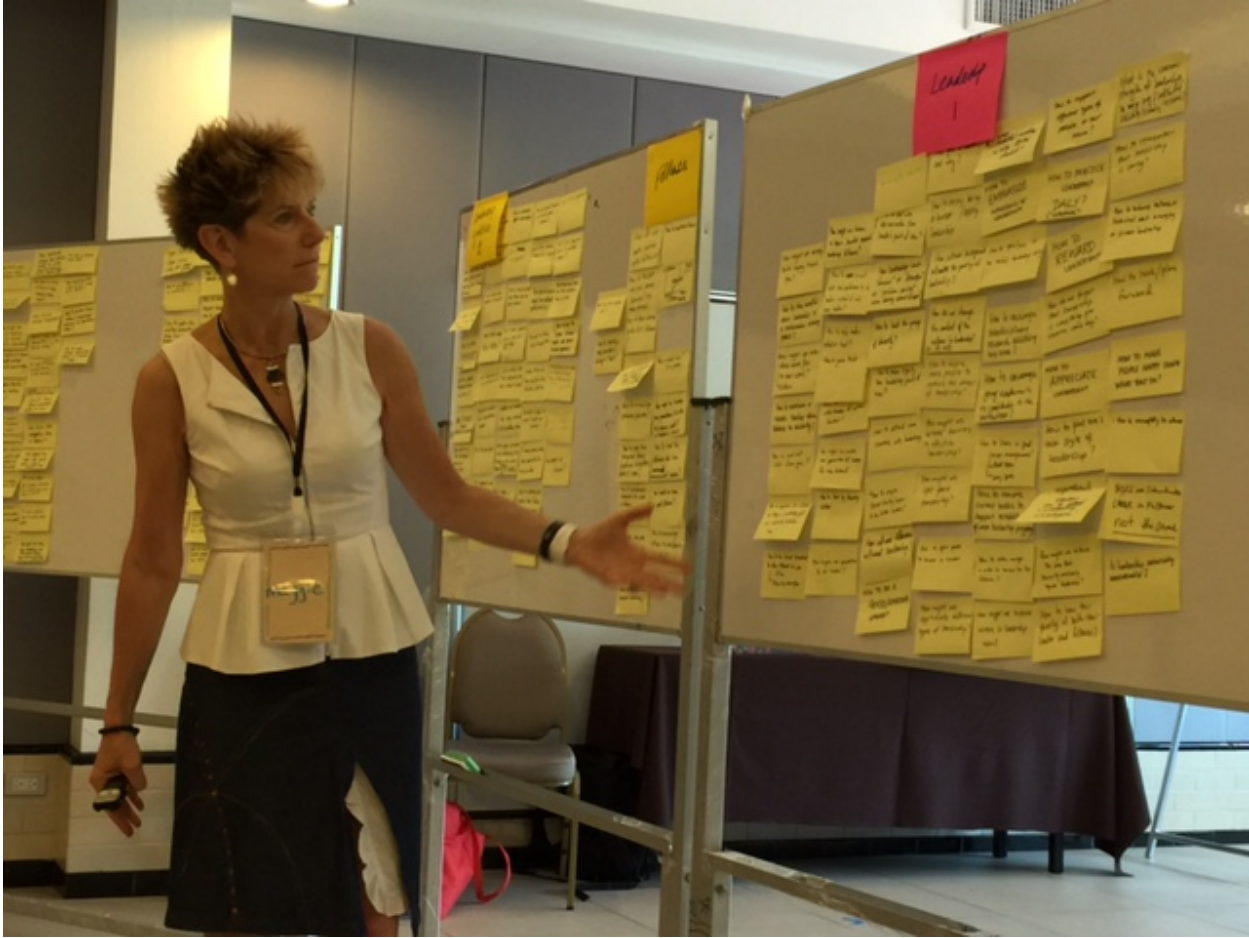












ASEAN NETWORK MIGHT LOOK LIKE

COLLECT SCIENTISTS TO TACKLE KEY ISSUES: PROBLEMS
SUPPORT EACH OTHER + EACH COUNTRY
INSPIRE LEADERSHIP

HARMONY + UNITY - HAPPY TO SHARE + TALK
TO LOOK TOWARD A BETTER QUALITY OF LIFE

INSPIRE INTERDISCIPLINARY + HARD + SOFT SCIENCE COLLAB.

INCLUSIVE - NO ONE IS LEFT OUT

WORTHY OF INT'L MEDIA COVERAGE

A VAST MEMBERSHIP SUPPORTS ACTIVITIES TO SUPPORT MEMBERS

SUPPORTS A RESEARCH COUNCIL

SUPPORTS LEADERSHIP DEVELOPMENT

REGIONAL CONFERENCES

LEADS to an ASEAN NOBEL LAUREATE

QUICK and AGILE TO DO THINGS

STRENGTHENS WEAK LINKS IN THE REGION



4. Group Projects

Throughout the three consecutive days, the fellows worked to identify key challenges to science in ASEAN and worked on developing projects that could impact the reality. These projects are currently being developed further with the support of the ASEAN SLP management team. Together with the mentorship links, the projects will be a key part of the “practice year” leading up to their second-round of engagement and training. On the fourth day of the workshop, the fellows worked further on developing a draft roadmap of the ASEAN network of young scientists. The goal is to ensure this group of young fellows could serve as the starting point to promote and later on to form the network of young scientists in ASEAN based on a bottom-up approach.

For a list of the projects and members, refer to Appendix C.

5. Next steps

- a. Preparation for the proposal for the 2nd ASEAN SLP, 2017 in Malaysia.

- b. Development of the projects over the course of the year with support from the ASEAN management team and KnowInnovation.
- c. Further development of pages on social media platform which aim to share materials, manage projects, and create interactions among fellows, trainers, and mentors.
- d. Interaction with fellows to determine the most useful and needed training or specific skills development required for the training program.
- e. Identification of potential funders or interested partners in the on-going group's projects.
- f. Preparation for the call for the second cohort of ASEAN SLP fellows.
- g. Development of the training program for the second cohort of ASEAN SLP fellows, based on experience and lessons learned with the first cohort.
- h. Collaboration with fellows and organizations who are interested in implementing similar program in their institutions and regions.

6. Appendices

Appendix A-ASEAN SLP Fellows 2016

| No. | Name | Field of Expertize | Institute | Country |
|-----|--------------------------------|----------------------------------------------------------|--------------------------------------|-------------|
| 1 | Dr. Jafri Malin Bin Abdullah | Neuro and BrainSciences | Universiti Sains Malaysia (USM) | Malaysia |
| 2 | Dr. Hong Ching Goh | Urban and Regional Planning | Universiti Malaya | Malaysia |
| 3 | Dr. Narimah Samat | Geographic Information System and Urban Spatial Modeling | Universiti Sains Malaysia (USM) | Malaysia |
| 4 | Dr. Edinur Hisham Atan | Molecular Biology | Universiti Sains Malaysia (USM) | Malaysia |
| 5 | Dr. Kar Lin Nyam | Food Science and Technology | UCSI University | Malaysia |
| 6 | Dr. Tee Keng Kok | Management Communication | PUTRA Business School | Malaysia |
| 7 | Dr. Iqbal Saripan | Computer and Communication System Engineering | Universiti Putra Malaysia (UPM) | Malaysia |
| 8 | Dr. Tonni Agustiono Kurniawan | Ecology and Environment | Xiamen University, China | Indonesia |
| 9 | Dr. Ritmaleni | Chemistry | Gadjah Mada University | Indonesia |
| 10 | Dr. Felycia Edi Soetaredjo | Chemical Engineering | Widya Mandala Catholic University | Indonesia |
| 11 | Dr. Hanh Tran | Industrial biotechnology | Ho Chi Minh International University | Vietnam |
| 12 | Dr. Thomas Edison E. Dela Cruz | Biological Sciences | University of Santo Tomas | Philippines |
| 13 | Dr. Aimee Lynn A. Barrion-Dupo | Entomology | University of Philippines, LOS BANOS | Philippines |

| No. | Name | Field of Expertize | Institute | Country |
|------------|-----------------------------|-------------------------------------------|--------------------------------------------|----------------|
| 14 | Dr. Nuwong Chollacoop | Materials Engineering | MTEC, NSTDA | Thailand |
| 15 | Dr. Kwanrawee Sirikanchana | Environmental Engineering | Chulabhorn Research Institute | Thailand |
| 16 | Dr. Siwaporn Meejoo Smith | Chemistry | Mahidol University | Thailand |
| 17 | Dr. Phatthi Punyasukhananda | Mechanical Engineering | PTT Public Company Limited | Thailand |
| 18 | Dr. Sakdipon Juasrikul | Strategic Management and Entrepreneurship | University of the Thai Chamber of Commerce | Thailand |

Appendix B- Itinerary of the program

| June 8, 2016 (Wednesday) | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Afternoon | Arrival of delegates |
| 6:30 | Welcome cocktail reception |
| 7:00 | Dinner |
| Thursday, June 9 (Thursday) | |
| Morning 9:00 | Meeting Start Opening remarks/Meeting Objectives Workshop Overview Who's here and why: Reviewing the knowledge, talent and expertise in the room |
| 10:30 | Break |
| | Skill tools: Re-thinking how we think A small clinic on creative skills that enhance collaboration Reflection & Table Discussions What are the challenges this represents? |
| Afternoon 12:30 | Lunch |
| | Examining Leadership Reflections on what is leadership, and what it might be. |
| 3:30 | Break |
| | Provocation: Our Own Perspectives Thinking about the leadership problems and challenges we face, every day. Group Reflection & Discussion |
| 5:45 | Break |
| 6:15 | Dinner |
| 7:15 | Evening Experience |
| 8:30 | Finish the Day |

| June 10, 2016 (Friday) | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Morning 8:30 | Meeting Start |
| | <p>Strengthening our Community Maximizing our impact</p> <p>Provocation: Leadership Dr. Yongyuth Yuthavong, Deputy Prime Minister of Thailand Further inspiration on leading for future impact</p> |
| | Break |
| 10:30 | <p>Landscape of the Challenge Making sense of all the challenges we collected during the meeting</p> <p>Working Groups Exploring key challenges and developing ideas and potential solutions</p> |
| Aternoon 12:30 | Lunch |
| 1:15 | <p>Working Groups Continue developing potential solutions and preparing presentations.</p> <p>Presentations Groups present the results of their thinking (so far), with feedback</p> |
| 3:00 | Break |
| 3:15 | <p>Working Groups Taking on board feedback, developing projects further</p> <p>Creative Preferences Understanding how you work in a group</p> |
| 5:45 | <p>Group Reflection & Discussion Finish the day</p> |
| 7:00 | Dinner |

| June 11, 2016 (Saturday) | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Morning 8:30 | Meeting Start |
| | Scholarly Stories The importance of your academic narrative Science Communication Borrowing from Business, your Value Proposition |
| | Break |
| 10:30 | Science Communication (cont'd) Practicing your Pitch Working Groups Preparing and polishing project presentations |
| Afternoon 12:00 | Lunch |
| 1:15 | Final Presentations Working groups share their thinking; receive additional feedback Working Groups Project groups prepare their Action Plans |
| 3:00 | Break |
| 3:15 | Next Steps Expectations for the coming year Group Charters Project groups map how they will work together |
| 5:45 | Group Reflection & Discussion Workshop Close |
| 7:00 | Farewell dinner |

| June 12, 2016 (Sunday) | |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Morning 8:00 | Meeting Start |
| | Brainstorming session: (draft) Roadmap of Young Scientists Network in ASEAN |
| | Break |
| 10:30 | Continue discussion (Note: Departure of some participants due to early flights) |
| Afternoon 12:00 | Lunch |
| 1:30 | Group departure |

Appendix C- Project Descriptions and group members ASEAN SLP 2016

(without priority order)

| | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Title: Science Leadership Garden Project |
| | Description: This project aims at promoting and nurturing the leadership of young scientists in ASEAN. The project focuses on 3 elements, including idea, novelty, and problems. The idea is to ensure sustainability of the leadership. In doing so, novel and good mechanisms need to be provided to the leaders. Finally, the team agrees that incubating leaders is one of the key mechanisms to promote the leaders. |
| | Members: Aimee Lynn (Philippines), Tee Keng Kok (Malaysia), and Nuwong Chollacoop (Thailand) |
| 2 | Title: ASEAN Young Scientists Network on Sustainable Medium-sized Cities (ASEAN YSN-SMC) |
| | Description: This project focuses on forming the ASEAN young scientists network on sustainable medium-sized cities. This is to comply with and get the ASEAN region ready for the 11 th goal of the Sustainable Development Goals (SDG) released in 2015. |
| | Members: Hong Ching Goh (Malaysia) and Narimah Samat (Malaysia) |
| 3 | Title: Upin-Ipin comic to promote love of STEM amongst ASEAN preschool and school children |
| | Description: This comic relates the travels of two well-known comic characters to ASEAN countries where higher order thinking skills in science, mathematics, economics, history, culture are used to solve their daily problems encountered during their travels to seek flora and fauna to prepare a cure for their grandmother's illness in a village in Malaysia. |
| | Members: Jafri Malin Bin Abdullah (Malaysia), Felycia Edi Soetaredjo (Indonesia), Sakdipon Jausrikul (Thailand), Hanh Tran (Vietnam), and Thomas Edison E. DELA CRUZ (Philippines) |
| 4 | Title: ASEAN Research Council |
| | Description: This project aims at promoting the collaborative science in ASEAN. The elements of the Council shall include database of ASEAN, Interactive Portal, ASEAN Scientific Meeting, ASEAN Research Fund, and Exchange program that would result in collaborative research projects. |
| | Members: Kar Lin Nyam (Malaysia), Edinur Hisham Atan (Malaysia), Igbal Saripan (Malaysia) and Ritmaleni (Indonesia) |
| 5 | Title: The ArtSci Project: Engaging the public on the artistic promotion of science |
| | Description: This project links art with science. Through its activities, e.g. the science-based fashion show, it aims to promote science to the public and establish a bridge that will connect artistic skills with scientific concepts. |
| | Member: Thomas Edison E. DELA CRUZ (Philippines) and Kwanrawee Sirikanchana (Thailand) |

| | |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | Title: Converting trash into cash using home composting method |
| | Description: The project aims at utilizing the organic waste from home kitchen and converting it into compost that could be either used as a fertilizer for urban farming or sold for market. |
| | Members: Tonni Agustiono Kurniawan (Indonesia) and Kwanrawee Sirikanchana (Thailand) |