

PO-AAU-420
47469

File
~~395-078-04~~
~~FILE~~

DIU
AID LIBRARY

THE ASEAN/AIT SCHOLARSHIP AND RESEARCH PROGRAM

FUNDED BY

THE UNITED STATES AGENCY FOR
INTERNATIONAL DEVELOPMENT

FEBRUARY 1984

- 1 -

THE ASEAN/AIT SCHOLARSHIP AND RESEARCH PROGRAM

FUNDED BY

THE UNITED STATES AGENCY FOR
INTERNATIONAL DEVELOPMENT

BACKGROUND

On July 13, 1979, the Asian Institute of Technology (AIT) signed an agreement with the Government of the United States of America whereby the latter agreed to provide a grant of US\$3,125,000 to support a project entitled "ASEAN/AIT Scholarship and Research Program" tenable at AIT. The purpose of this Grant (No. AID 492-1675) is to provide financial assistance to the ASEAN Scholarship and Research Award Project of the AIT for a period of five years. This scholarship program aims to enable students from the ASEAN countries to strengthen national capacities to carry-out development programs in food, nutrition and rural development including related energy, rural industry, environmental, water resources and engineering needs. The program involve the following:

- (1) Up to fifty (50) scholarships per year for a period of five years will be provided by AIT to students from ASEAN countries (i.e. Indonesia, Malaysia, Philippines, Singapore and Thailand) who will pursue studies leading to a masters degree in selected courses in the field of science and technology. It is anticipated that each ASEAN member will provide 10 scholarship recipients, but in the event that number is not reached, other countries could receive a greater number with the concurrence of the ASEAN Secretariat in order to maintain the 50 per year level. In exceptional cases, a special research program at AIT may be substituted for the masters degree program.
- (2) At the beginning of the program, the scholarships will be for qualified ASEAN students who will pursue studies in courses offered by AIT's Divisions of Agricultural and Food Engineering, Energy Technology and Water Resources

Engineering. Scholarships in the courses offered by the Institute's other academic Divisions will subsequently become part of the program. The Divisions and their associated fields-of-study that are included in the scholarship program are given in Attachment 1.

- (3) Only candidates recommended by the various ASEAN governments and coming from either the private, university or public sectors will be eligible to apply for scholarships. The final selection for admission of nominees will be made by AIT.
- (4) The ASEAN governments, through the ASEAN Secretariat, will be consulted on the research topics selected by the scholars.
- (5) The individual research study carried out by the scholar will be conducted in his home country. In cases where data collection requires travel to other countries, the research grant component will be used to cover the associated expenses.

PROGRAM IMPLEMENTATION

Program Requirements

To qualify for the degree of Master of Engineering or Master of Science a student must satisfactorily complete either:

- (a) a program of coursework, which includes an independent research study project (Research Studies), or
- (b) a less extensive program of coursework and a thesis.

Under the Research Studies option, described in (a) above, the candidate must accumulate at least 54 course credits plus at least 6 credits of research study. Under the second and more popular thesis option (b), the candidate must have at least 30 course credits plus a thesis. For both options, the full program extends for 5 terms or 20 months. The minimum grade point average required for graduation is 2.75 in a grading system where 4.00 is the highest grade possible.

To be eligible for admission to the masters degree program, a candidate must:

- (i) hold a degree at the bachelors level, or its equivalent, in an appropriate field of study from an institution of recognized standing;

- (ii) have undergraduate grade well above average;
- (iii) be influent in the English language;
- (iv) be physically and mentally fit; and
- (v) have a record of good conduct.

The first group of students nominated by their respective governments under this program began their studies in January 1980. The application forms were sent by the ASEAN National Secretariat to their respective embassies in Bangkok for transmittal to AIT. In some cases the application forms were coursed through ASEAN/Thailand and finally to AIT. Replies were sent directly to the applicants by AIT but copies were sent to the ASEAN National Secretariat for information and coordination.

On arrival at AIT, the Institute conducts an orientation course which covers practically all facets of AIT life. The student is assigned to an adviser who guides his/her program of study. At the middle of each term, the student's performance is assessed by the course instructor. Students who are not performing well are advised accordingly. At the end of the term, the student's progress is again assessed by the course instructor. The process is repeated until the third term. On the third term, the student is given a thesis topic and assigned to a thesis adviser. The scholarship grant has a research component which funds the student's research work and the student is encouraged to undertake a project relevant to the needs of his/her home country. In most cases part of the research work is done in the home country of the student. AIT assigns an external adviser to guide the student and this is supplemented by visits of the student's thesis adviser during the course of the research work.

During the fifth and final term, the student returns to AIT to finalize the thesis and defend it orally before a thesis committee.

Once successful and assuming that his cumulative grade point average is 2.75 or more, the student is allowed to graduate. Attachment 2 lists the theses topics of all the ASEAN students who completed the masters program.

Relevant Statistics

When the program was designed in 1979, the purpose was to train ASEAN participants at the masters level. The agreement however, provided for funding of special research program at AIT, as a substitute for the master's program in exceptional cases. Some ASEAN governments availed of this provision. With the approval of the USAID, AIT admitted a number of candidates nominated by some ASEAN governments to short-term special programs at the Institute.

Since the ASEAN/AIT Scholarship and Research Program started in early 1980, the records show that 140 participants from ASEAN have successfully completed the training at AIT.

The breakdown is as follows:

Masters Program	=	93
Diploma Program	=	1
Certificate Program	=	38
Special Course	=	<u>8</u>
Total		140
		==

As of January 1984, fifty three (53) ASEAN participants are presently undergoing training. Thirteen (13) have been dismissed or have withdrawn from the program. The details are tabulated in Attachment 3. The list of the recipients of the master's degree and their addresses are shown in Attachment 4.

TRACER STUDY

This tracer study was primarily aimed at tracking the progress of those participants who completed the 20-month master's degree program at AIT. The target group does not include those who attended the diploma, certificate and special programs whose duration varied from nine months to eight weeks. The target group covers ninety three (93) individuals and the percentage who responded to the survey is 36%. This rate of response is the same as that obtained in an earlier tracer study

conducted by the AIT on all its graduates in 1981. The present tracer study shows that 94% are within the region and 6% are pursuing doctoral studies outside the region.

The study also showed the following relevant statistics on the respondents' place of employment:

Percentage working in their home country	=	88%
Percentage working in another Asian country	=	6%
Percentage working/studying outside Asia	=	6%

Examining the respondents' type of employment, the following percentages are obtained::

Working in government agencies	=	45.5%
Working in universities and/or research institutions	=	42.5%
Working in the private sector	=	12 %

Clearly, a great majority of those who benefited from the US-funded program (about 94%) are still in Asia. This figure is comparable with the figure obtained from a similar tracer study conducted on AIT alumni in 1981. If the 6% who are presently pursuing higher studies outside Asia is considered as temporary "brain-drain", the figure is comparatively low which is heartening for AIT knowing that the people it trained are still working in the region and actively contributing to the development of the region.

Alumni Response

The following comments extracted from the alumni letters and reports are reproduced with some editorial corrections:

On the Nature of their Employment

"Since I returned after graduating from AIT, I have not had a chance to take any holiday yet. The Minister of Transport appointed me as Director of the Road Traffic and Transportation College. This is a government-funded institution under the Ministry of Transport. The college has 120 students who are recruited from among junior government

officials in Indonesia. Our campus is located 35 kilometers outside of Jakarta."

Sunaryo Joyopuspito
Indonesia-Class of 1982

"After completing the masters program at AIT, I returned to my old office which is the National Economic and Social Development Board (NESDB). After AIT, I was assigned to be in charge of the economic structural analyses of the development of regional cities in Thailand. In particular, I was assigned to be a counterpart expert to a special study funded by Japan International Cooperation Agency entitled "The Sub-Regional Development Study of the Upper-Southern Part of Thailand". In addition, I am also in charge of the Urban Employment Study which is a new project of interest in my Division."

Sittichod Wantawin
Thailand-Class of 1982

"Upon completion of my study at AIT, I rejoined my old office, the Magat River Multipurpose Project of the National Irrigation Administration. I was assigned as a trainer in the Water Management Training Program. The program has three major aspects and these are human resources management, irrigated rice crop production and irrigation water management. We provide training to the irrigation technicians and to the end-users, the farmers."

Franklin G. Ramones
Philippines-Class of 1981

"After graduating from AIT, I joined Technosphere Consultants Group, Inc., a multi-disciplinary firm engaged in consultancy and engineering services to both private and government institutions. I joined TCGI's Water and Environmental Affairs Division in September 1981 as one of the key civil engineers and was promoted to Associate Civil Engineer six months later. My work deals mostly in the design and management of water resources and water supply engineering projects. Our company is very much involved in small water impounding projects,

providing feasibility studies, detailed design and construction management to the client."

Eduardo C. Abores
Philippines-Class of 1981

"Soon after graduating from AIT, I worked at the Expressway and Rapid Transit Authority of Thailand. My work is concerned with expressway planning and construction. At present I am studying for my doctorates degree at the Department of Civil Engineering of the University of Tokyo under a Japanese Government scholarship. My thesis topic is "Landuse-Transport Model for Developing Countries: Case Study of Greater Bangkok Area". I expect to finish this program in March 1986".

Samart Katchapolsitte
Thailand-Class of 1981

"After AIT I rejoined the faculty at Bogor Agricultural University teaching and conducting research in the Department of Agricultural Engineering. I am also continuing my doctoral studies at Bogor Agricultural University".

Bambang N. Pramudya
Indonesia-Class of 1981

"Presently, I am employed as a Science Research Specialist at the National Pollution Control Commission, an agency which is under the Ministry of Human Settlements that monitors all the pollution status of the entire country, specially from emissions and discharges of all industrial establishments.

Ester Alvariz-Olavides
Philippines-Class of 1983

"I am now teaching full-time at the University of the Philippines, Los Banos. I am teaching courses covering topics in farm power and machinery, energy sources, crop processing, machine design and mechanisms, economics of farm machinery use, and farm mechanization/feasibility studies"

Aurelio A. De Los Reyes, Jr.
Philippines-Class of 1982

"Since I returned to Indonesia from AIT, I rejoined P.T. INDAH KARYA, a semi-government consulting firm involved in drainage and water supply projects. My on-going projects are:

- (i) The Padang Drainage Improvement Project, financed by the Asian Development Bank.
- (ii) East Java water supply project covering 25 cities in East Java and financed by the World Bank.
- (iii) Central Java water supply project covering 33 small towns in Central Java financed by the Asian Development Bank.
- (iv) Rural water supply study in central Java covering about 100 villages financed by the World Bank.

The project that I am involved with will benefit 250 villages with a combined population of 375,000 people".

Pamekas

Indonesia-Class of 1983

"After graduation from AIT, I joined the Department of Computer Engineering, King Mongkut's Institute of Technology. My duties are to teach computer science and engineering subjects, supervise research projects and conduct academic seminars.

I also work as computer consultant. I write computer programs for companies, design information systems and publish papers in local computer journals.

One of my computer projects is being implemented in a coal mine in Lampung. The project is to computerize the survey system which include coordinate and level calculations, area calculations and volume of earthwork calculations. This reduced the working time from one month to several days."

Suphamit Chittayasothorn

Thailand-Class of 1982

"I am now working at the Directorate of Sanitary Engineering. Since my return to Indonesia on 1st May 1983, I have been assigned to perform seven special assignments. Some of these assignments involve policy formulation and conducting special seminars and training. On 1st August 1983, I was promoted to be head of the Foreign Aid Unit of the

Directorate of Sanitary Engineering. My Director believes that I am the appropriate person to hold the post due to my background".

Wladimir Askinin Bamayi
Indonesia-Class of 1983

On the Relevance of AIT Training to their Countries Development

"When I left for AIT in September 1981, I was officer-in-charge of the Technical and Skills Development Group, Human Resources Development Department of the Metropolitan Waterworks and Sewerage System (MWSS). When I resumed office in May 1983, after finishing my studies, I was designated as Chief of the Human Resource Development Department. MWSS is the prime water agency in the Philippines providing potable water to 4 cities and 23 municipalities of the Metro Manila area, a metropolis having a population of 7 million people. It operates also a limited sewerage system that caters to central Manila area only.

The relevance of my work in the development of my country can be viewed in terms of my group's contribution to the overall manpower development of water-based personnel in the water industry".

Ramon C. de Mesa
Philippines-Class of 1983

"My program of study and research at AIT helped me very much in my work. I gained more experience especially in hydrology and hydraulic structures. My work performance improved and my efficiency increased. My ability to solve emergency problems has also improved. In my opinion, the program of study in irrigation engineering at AIT is very suitable to developing countries.

Garoon Larpvisutisaroj
Thailand-Class of 1983

"I am now working for a consulting firm owned by the government. I work in the Hydraulic Division involved in the feasibility studies and designs of irrigation and drainage projects, river basin developments and water supply projects.

With the knowledge on Systems Design in Water Resources Development, Computer Applications, Advanced Hydrology, Hydraulic Structures and Irrigation Engineering, all of which I gained from AIT, I could understand and describe technically the project requirements and determine what appropriate action should be taken to achieve the goals."

Hariadi Poerwito

Indonesia-Class of 1982

"In November 1983, I joined IBM Thailand as a System Engineer. My job deals with training people on how to use computers. It is obvious that computer technology is spreading very fast in Thailand as well as other countries in Asia. Its impact in business and communication is very well known. Computers are essential tools and AIT's program in computer application is relevant to the development of my country as well as other countries in Asia."

Surin Charnyapornpong

Thailand-Class of 1983

"Our work at the Institute is most relevant in that one tries to develop the student's interest in national concerns, problems and issues; evolve the necessary analytical framework; equip them with skills in social mobilization. More importantly, we try to develop and strengthen their commitment to serve the masses particularly those in the countryside."

Marilou L. Alcid

Philippines-Class of 1982

"I found that the program at AIT was very valuable to me in shaping my method of approach in solving problems. The courses that I got in AIT were very useful such as Management, Computer Application, Statistics, Experimental Design and Transportation Economics."

Gandhi Harahap

Indonesia-Class 1982

On the Value of their Training

"I believe that without the training and preparation which I did in my graduate program at AIT I will not be more equipped technically to meet at least a part of an enormous needs in my country, foremost of which is to identify an alternative source of our staple crop-rice through root crops to meet the food demand of our ever-growing population."

Alan L. Presbitero
Philippines-Class of 1983

".... the knowledge and experience which I am now using in my work came from the study and research which I did in AIT. The program enabled me to develop my self confidence. The ASEAN scholarship enabled me to get a master's degree which is not only of great personal benefit to me but most importantly, I gained added knowledge which benefit other people through my work".

Thipparat Chirathamkijkul
Thailand-Class of 1982

"There is no doubt that the study and research program which I did at AIT help me to accumulate valuable knowledge which I could appropriately apply in the region. My way of thinking in formulating appropriate approach to a problem has improved after my study. The courses in environmental management, lead me to consider all possible aspects in formulating and selecting appropriate solutions which are realistic, reasonable and acceptable."

Pamekas
Indonesia-Class of 1983

"My program of work at AIT help me in my present job and work activities in that it expanded my outlook generally in water resources engineering and particularly in irrigation development, and, of course, having taken subjects on advanced topics in water resources engineering."

Renato S. Gamboa
Philippines-Class of 1982

"With regard to rural development, my current work in organizing core groups of potential change agents coming from several sectors has been most rewarding. Concepts and perspectives of development learned at AIT have been very useful in understanding the poverty of rural communities in my country. My exposure to the academic background in community organization/development in AIT and some conferences/seminars organized by the Division of Human Settlements Development has given me contacts with those involved in community organization work."

Ricardo A. Hilario II
Philippines-Class of 1982

"Though the usefulness of my research work may not at this time find direct usefulness to my present tasks, its relevance is given credence to the fact that it has broadened my concepts in relating environmental systems in managing water and sewage concerns."

Ramon C. De Mesa
Philippines-Class of 1983

"Much of what I learned in AIT become very useful in the performance of my job. Knowledge which I acquired in Tropical Hydrology, Fluid Mechanics, Flow in Open Channels, Irrigation Engineering, Systems Design in Water Resources and Applied Statistics are indispensable in the execution of my work in design and lay-out of structures, and technical reporting. Moreover, the AIT training of analytical thinking and creativity help me much in doing my work well."

Carlos C. Tan
Philippines-Class of 1982

"Immediately after graduation, I joined the Regional Research and Development Center at AIT where I worked on the project "Masterplan for Rural Water Supply and Sanitation in Thailand" and this gave me the opportunity to apply the study program at AIT on the different aspects of my work, e.g., technical understanding, data collection, questionnaire design, field survey, etc."

Wilairat Wangcharoenwong
Thailand-Class of 1983

Vote of Thanks to AIT and USAID

"Although my existing activities are based on my previous background, but honestly, I found that my program at AIT was very valuable. And I also found that my superior is satisfied with my performance. This is one reason why the Director still keeps me in the group. Thank you for your time in reading the "brief" report. And by this letter, I would like to express my gratitude to AIT and the USAID for giving me the chance to study at AIT.

Gandhi Harahap

Indonesia-Class of 1982

"The program of study and research I have undergone in AIT have contributed considerably to the technical competence in the work I am now handling. The practical experience I had prior to AIT has been enhanced by the knowledge I gathered during my period of study, most particularly computer programming and the use of computer methods in the solution of water resources engineering problems. The trust and confidence afforded me and other AIT graduates by management is really an indication that AIT is still one of the best or perhaps the best graduate school of technology in Asia.

If I may, I would like to take this opportunity to express my sincere thanks to the U.S. Agency for International Development and the ASEAN Secretariat through your office for the scholarship grant they provided me".

Eduardo C. Abores

Philippines-Class of 1981

"I am truly grateful to the USAID for securing me through graduate school and, given ample time and opportunity, I look forward to being able to provide you with more tangible justifications, in line with the aims of the scholarship program, as to why such a program must continue".

Mendeluz B. Bautista

Philippines-Class of 1983

"I believe that my study in AIT has helped me broaden my knowledge and become involved in more aspects of geotechnical, geophysical and engineering geological studies. Whereas before, my work was limited to seismicity and geophysical exploration of proposed and existing sites, I am now in a better position to relate the different factors used in assessing the feasibility of proposed sites for a variety of engineering structures.

I think that my capability afforded me by my study in AIT is significant in its contribution to the reduction of our dependence on foreign consultants. This has been a source of pride for me and more importantly, it has increased my awareness to professional advancement. Please consider the preceding comments as my expression of gratitude to the USAID program and to AIT. I hope to be of some service to you in the future."

Fernando Y. Roxas

Philippines-Class of 1983

"The ultimate aim of our present project is to formulate a sound national plan which will improve the rural water supply and sanitation so that 99% of the people will have access to potable water supply. Lastly, allow me to use this opportunity to express my gratitude to USAID and thank you for being interested in my career."

Wilairat Wangcharoenwong

Thailand-Class of 1983

Should the ASEAN/AIT Scholarship and Research Program be continued? Mr. Sunaryo Joyopuspito who has been appointed Director of the Road Traffic and Transportation College in Indonesia soon after graduation from AIT, has the answer:

"You should know that until now in the Ministry of Transport there is just one person with a master's degree in transportation engineering and that is myself. In the whole ministry there are only 7 people with masters' degrees in business administration and economics and none holds a doctorate degree."

OBSERVATIONS

1. The tracer study conducted on participants who completed the 20-month master's degree program under the ASEAN/AIT Scholarship and Research Program show that 94% are working in the region and that 88% are in their home countries. If the number of participants doing post-doctoral studies outside the region is considered as "brain-drain", then the "brain-drain" for this particular group of participants is 6%. This figure is the same as the figure obtained from a survey of all AIT graduates conducted in 1981.
2. The feed-back received from the participants revealed that in almost all cases, the participants were given more responsibilities when they returned to their home countries. The tracer study showed that most of them returned to positions that recognized their competence and skills and utilize them for projects that needed their expertise in research, policy formulation and supervision skills.
3. The tracer study also showed that most of the participants (88%) went to work for the government and universities. This is due to the fact that the ASEAN governments nominated more candidates from the government and education sector than from the private sector.
4. The USAID-funded ASEAN/AIT Scholarship and Research Program represents a continuing link in the chain of United States involvement with AIT, which it founded 25 years ago. From a modest beginning in 1959, it became a respected center of excellence and relevance in graduate study and research in the Asian region. The United States support representing 17.8% of the operating expenses is a sign of strong interest in human resources development within the Asian region for the region and also of the significant role it has played in the development and prospering of AIT. The ASEAN/AIT Scholarship

and Research Program which began in 1979 gives continuity to the US program of assistance to AIT from its founding in 1959. This program has had far reaching impact on the development of the financial resources of the Institute, because it stands as that link in the chain of US and ASEAN interest in AIT's involvement and service to Asia for all of AIT's present 87 donors to see and emulate.

5. The program has stimulated increased contacts between AIT and faculty and staff and ASEAN government agencies, universities and research institutions. The shared responsibilities for thesis research supervision has helped to broaden the view of all those concerned. The close collaboration has facilitated AIT's access to information on the needs, problems and potential requirement for AIT's services as well as provided relevant data and other reliable information from the ASEAN countries.

6. A successful regional training and research program is one that provide the kind of training required by participating countries, enhance the effective utilization of trained personnel within the region, promotes research applicable to the region, and encourage the support of regional institutions capable of providing these objectives on a continuing basis. The ASEAN/AIT Scholarship and Research Program is demonstrating success in each of these areas. All 93 participants who completed the 20 month master's degree program have been trained in technical fields identified by ASEAN countries as priority needs of the region; 94% are working in the region with the remaining 6% pursuing higher degrees abroad and in all probability will return to the region; all 93 graduates have completed research theses and special research studies in fields relevant to the needs of their countries, and 8.5% of AIT's student body is financed through this ASEAN program. Moreover, this model of training is being considered by other donor agencies.

ATTACHMENT 1

<u>Division</u>	<u>Field of Study</u>
Agricultural & Food Engineering	- Agricultural Soil & Water Engineering - Agricultural Machinery & Management
Computer Application Technology	- Computer Application Technology
Energy Technology	- Energy Technology
Environmental Engineering	- Environmental Technology & Management - Water & Waste Water Engineering
Geotechnical & Transportation Engg.	- Soil Engineering - Engineering Geology - Transportation Engineering - Transportation Systems
Human Settlements Development	- Human Settlement Planning & Development - Rural Development Planning
Water Resources Engineering	- Hydraulic & Coastal Engineering - Irrigation Engineering - Water Resources Development

ATTACHMENT 2DIVISION OF AGRICULTURAL & FOOD ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Leopoldo A. Catabay	Philippines	A Study for the Design of a Multi-Purpose Water Impoundment	Thesis # AE-81-10
Mr. Franklin S. Ramones	"	Optimization of Water Distribution Management for the Magat River Multi-Purpose Project (MRMP), Philippines	Thesis # AE-81-12
Mr. Aurelio A. de Los Reyes, Jr.	"	Energy Analysis of Agriculture in Thailand	Special Study # AE-82-2
Mr. Harsono	Indonesia	Effect of Monoculture and Inter-cropping on Erosion	Thesis # AE-81-3
Mr. Noppadol Sresuparp	Thailand	Heavy Equipment in Land Consolidation Work in Thailand	Special Study # AE-81-6
Mr. Bambang Pramudya	Indonesia	Clearing of Alang-Alang Steppe Land in South Sumatra, Indonesia	Thesis # AE-81-21
Mr. Chusak Narkprasit	Thailand	Spray Drying Process of Coconut Milk	Thesis # AE-81-7
Mr. Lienda Aliwarga	Indonesia	Preliminary Investigation of Solvent Extraction of Rice Bran Oil in A Batch Agitated Vessel	Thesis # AE-83-8
Mr. Caesar Argabio Celocia	Philippines	Performance Evaluation and Optimizing the Use of IRRI Mechanical Reapers and Axial Flow Threshers	Thesis # AE-83-9
Mr. Nestor L. Oguis	"	Reclamation, Management & Improvement of Acid Sulphate Soils: A Review	Special Study AE-82-4
Mr. Alan Ludovice Presbitero	"	The Calculation of Water Release Policy for Balog-Balog (Philippines) Single Multi-Purpose Reservoir System Using DDP Analytical Technique	Thesis # AE-83-1
Mr. Nand Krairiksh	Thailand	Interpretation of Selected Soils in Phetchbun Province for Use as Roadfill	Thesis # AE-82-18
Mr. Prajuab Thongplave	"	Rehabilitation and Water Resources Development of the Kwan Phayao Lake	Thesis # AE-82-17

10

DIVISION OF AGRICULTURAL & FOOD ENGINEERING (continued)

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Norman Tolentino Soils	Philippines	An Economic Comparison of Paddy Drying in Shallow Beds Using Natural and Heated Air	Thesis # AE-82-17
Miss Onrawee Techasena	Thailand	Compression Tests for Measuring the Firmness of Potatoes	Thesis # AE-82-3
Miss Petcharat Karnjanasiriwan	"	Continuous Ethanol Fermentation with Cell Recycle by Using a Tower Fermentor	Research Study # AE-83-2
Mr. Chawalit Orachunwong	"	The Relationship between Zooplankton and Fish Growth in Cesspool Sludge Loaded Tanks	Thesis # AE-83-22
Mr. Muhjidin Mawardi	Indonesia	An Evaluation of Soil and Water Conservation Practices in the Samin Watershed Development Project, Surakarta, Indonesia	Thesis # AE-83-4
Mr. Suyitno Tjokrodihardjo	"	Some Factors Affecting the Quality of Partially Defatted Peanuts	Thesis # AE-83-18

DIVISION OF COMPUTER APPLICATION TECHNOLOGY

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Chia Chee Liong	Singapore	Computer Performance Data Collection System	Special Study # CA-82-3
Mr. Suphamit Chittayasothorn	Thailand	Data Base System Design and Implementation for Graphical Data Presentation: The Case of Thailand	Special Study # CA-82-4
Mr. Khoo Beng Yang	Singapore	Medical Information System for An Academic Institution	Special Study # CA-82-8
Mr. Leong Cheen Fah	Singapore	A Multivariate Analysis of the Factors Affecting Academic Performance of the Pupils in a Secondary School	Special Study # CA-82-9
Mr. Conchito Pangasian Talaboc	Philippines	Optimal Unit Commitment and Real Time Economic Dispatch and Control of Cascaded Hydroelectric Plants with Thermal Back-Up	Thesis # CA-83-1

DIVISION OF COMPUTER APPLICATION TECHNOLOGY

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Surin Charnyapornpong	Thailand	A Thai Syllable Separation Algorithm	Thesis # CA-83-10
Mr. Chong Hoi Neng	Singapore	An Adjunct CAI for Teaching Geometry in Secondary Schools	Thesis # CA-83-3
Mr. Chalerm Yiengsubhanond	Thailand	A Study on the Efficiency of the Interactive Simplex and the Pattern Search Methods in a Noise Situation	Thesis # CA-83-26

DIVISION OF ENERGY TECHNOLOGY

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Sompan Poolpool	Thailand	Construction of an Original Test Bed for Evaluating Solar Collector Performance Non-Linearly	Thesis # ET-81-11
Mr. Supachart Chungpaibulpatana	"	Model for Optimizing the Solar Plant Storage Tank Volume in Thailand	Thesis # ET-81-9
Mr. Robert Kraemer Manurung	Indonesia	Design and Test of an Improved Absorption System for Solar Powered Refrigerator	Thesis # ET-81-7
Mr. Rebecca A. Alivio	Philippines	Energy Flow and Economic Evaluation of AlcoGas in the Philippines - A Case Study on Energy Planning	Thesis # ET-82-8
Mr. Widhoon Chiamchittrong	Thailand	A Pre-Feasibility Study of Solar Heating for the Finishing Unit of A Textile Factory	Thesis # ET-83-1
Major Thamnong Oungsakul	"	Biogas From Latrine	Special Study # ET-83-3

DIVISION OF ENVIRONMENTAL ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Miss Ganda Glinsorn	Thailand	Treatment of Pesticide Wastewater by Activated Carbon	Thesis # EV-82-27

DIVISION OF ENVIRONMENTAL ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Miss Atcharaphan Phuangthong	Thailand	Post Implementation Analysis of Environmental Impact for Srinagarind Dam and Reservoir Project	Thesis No. EV-82-15
Mr. Usman Kusmulyana	Indonesia	Evaluation of Rural Water Supply in Indonesia	Thesis No. EV-82-23
Miss Ester B. Alvarez	Philippines	Pollution Load Assessment from Major Land-Based Point Sources in Iligan Bay in the Philippines	Thesis No. EV-83-3
Mr. Wladimir Askinin Bamayi	Indonesia	Design Criteria Development of Rotating Biological Contactor and Anaerobic (Upflow) Filter System for Sewage Treatment	Thesis # EV-83-4
Miss Mendeluz B. Bautista	Philippines	Nutrient Release from Lake Sediment	Thesis # EV-83-5
Mr. Ramon Costales De Mesa	Philippines	Economic Analysis of Environmental Protection Measures of Selected Electroplating Plants in Metro Manila, Philippines	Thesis # EV-83-7
Mr. Preecha Loosereewanich	Thailand	Cost Analysis of Wastewater Treatment in the Greater Bangkok Area	Thesis # EV-83-15
Mr. Bienvenido G. Gaurino	Philippines	Development of an Optimization Model for the Distribution of Pumping Stations in A Water Distribution Network	Thesis # EV-83-8
Mr. Pamekas	Indonesia	A Comparison Between Hardy Cross Method & O.R. Based Procedure for the Design of Water Distribution System	Thesis # EV-83-20
Miss Wanida Srichai	Thailand	Two-Phase Tapered Fluidized Bed Anaerobic Digestion Study	Thesis # EV-83-25
Miss Wilairat Wangcharoenwong	"	Rational Design of Water Supply System for Small Communities in Thailand with Emphasis on Slow Sand Filtration	Thesis # EV-83-17

DIVISION OF GEOTECHNICAL AND TRANSPORTATION ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Lim Thian-Loke	Singapore	Geotechnical Properties of the Singapore Marine Clay	Thesis # GT-81-11
Mr. Samart Ratchapolsitte	Thailand	Minibus Operation in Hat Yat, Thailand	Thesis # GT-81-37
Mr. Gandhi Harahap	Indonesia	Road-Rail Interaction: The Medan-Rantauprapat Highway, Indonesia	Thesis # GT-81-29
Mr. Prasert Attanandana	Thailand	Road-Rail Interaction: Chokchai-Dejudom Highway	Thesis # GT-82-4
Mr. Crisanto Adriano Baura, Jr.	Philippines	A Review on Engineering Geology of Metro Manila	Thesis # GT-82-11
Mr. Werapong Chaleomjirarut	Thailand	Effects of Railway Closure on the Transportation System of the Kwai Noi Valley, Thailand	Thesis # GT-82-5
Mr. Sunaryo Joyopuspito	Indonesia	Goods Vehicle Movement and Transshipment in Surabaya, Indonesia	Thesis No. GT-82-7
Mr. Arnel Malonzo Mendoza	Philippines	Engineering Geology of Baguio City, Philippines	Thesis No. GT-82-15
Mr. Fernando Y. Roxas	"	Stability Analyses of Planned Cut Slopes on Rock at the Lower Agno No. 5 Multi-Purpose Project, Luzon, Philippines	Thesis No. GT-82-14

DIVISION OF HUMAN SETTLEMENTS DEVELOPMENT

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Miss Mary Lou L. Alcid	Philippines	Village Development: Changes in the Roles of Women (A Case Study of Two Philippine Villages)	Thesis # HS-82-22
Miss Thipparat Chirathamkijkul	Thailand	A Feasibility Study of the Reconstruction of a Private Slum in Bangkok	Thesis # HS-82-4

DIVISION OF HUMAN SETTLEMENTS DEVELOPMENT

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Ildefonso Reblando Santos	Philippines	Slums Existing Under the Threat of Eviction: The Case of Cebu and Davao, Philippines	Thesis # HS-82-34
Mr. Nopanant Tapananont	Thailand	The Urban Land System of Thailand	Special Study # HS-82-2
Mr. Nantasak Roonprabhan	"	Rice Milling in Thailand: A Review	Special Study # HS083-3
Mr. Ricardo A. Hilario II	Philippines	A Strategy for the Selective Re-settlement of Shanty Settlements in the City of Colombo	Special Study # HS-82-6
Miss Nora A. Martinez	"	Planning for Philippine Integrated Rural Development: An Evaluation of Mindoro IRD Project	Thesis No. HS-82-31
Mr. Nopadon Sahachaisaeree	Thailand	Traditional Chinese Shophouses in Phuket (South Thailand) and George Town (Penang, Malaysia): Towards A Policy of Conservation	Thesis No. HS-82-33
Mr. Chanvit Vasayangkura	"	People Organization at the Village Level: How to Improve Its Efficiency Through Plan Making: The Case of Hambantota District, Sri Lanka and Warin Chamrap District, Northeast Thailand	Special Study # HS-82-10
Mr. Sittichod Wantawin	"	Employment and Informal Sector Activities of Slum and Shanty Residents: A Case Study of Two Shanty Settlements in Colombo, Sri Lanka	Special Study # HS-82-11
Mrs. Orajitt Bumroongsakul-sawat	"	Phuket Conservation Study - Part II: Housing Conditions and Improvements	Research Study # HS-83-2
Miss Elizabeth Austral Gabuat	Philippines	The Urban Bliss Housing Program in Metro Manila: An Evaluative Case Study of the Guadalupe Bliss Project	Thesis # HS-83-7
Miss Delia Parel Nasayao	"	An Evaluation of Housing Conditions and Needs - Case Study: Arkong Bato:	Research Study # HS-83-12

DIVISION OF HUMAN SETTLEMENTS DEVELOPMENT

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Salleh Bin Haji Mohammad	Malaysia	Recruitment of Future Labourers in Land Settlements of West Malaysia: Two Cases in the Central Trengganu Development Area (Ketengah)	Thesis # HS-83-8

DIVISION OF INDUSTRIAL ENGINEERING AND MANAGEMENT

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Miss Regina Warren Robles	Philippines	Recursive Linear Programming Model of Rice and Corn Supply in Central Luzon, Philippines	Thesis # IE-83-2
Mr. Somjate Saifon	Thailand	The Impact of Adulteration and Imitation on Trade Mark Owner's Business in Thailand	Special Study # IE-83-16
Miss Rubi E.K. Sevilla	Philippines	The Export Processing Zone: A Life Cycle Approach	Thesis # IE-83-3

DIVISION OF STRUCTURAL ENGINEERING AND CONSTRUCTION

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Antonio C.S. Aligaen	Philippines	An Evaluation of the Concreting Practices in the Philippines	Thesis # ST-83-1

DIVISION OF WATER RESOURCES ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Mario M. Gulinao	Philippines	Development of an Optimal Cropping Calendar for Irrigated Rice by Simulation for the Philippines	Thesis # WA-81-2
Mr. Eduardo C. Abores	"	Staged Development of Water Resources in Cebu, Philippines	Special Study # SSPR-WA-81-3

21

DIVISION OF WATER RESOURCES ENGINEERING

<u>Name</u>	<u>Country</u>	<u>Thesis/Special Study Title</u>	<u>Publication No.</u>
Mr. Renato S. Gamboa	Philippines	A Groundwater Simulation Model for Well Fields at the Agno River Basin: Central Luzon, Philippines	Thesis # WA-83-20
Ms. Zouhrawaty Abdullah Ariff	Indonesia	Regimes of Flow and Sediment Transport in Open Channel	Special Study # SSPR-WA-82-1
Mr. Prasit Ponvilai	Thailand	Water Resources Development Aspects for the Rehabilitation of Bung Boraped Lake	Thesis # WA-82-17
Mr. Thawat Sing-Poo	"	Water Resources Study of the Nong Han Lake	Thesis # WA-82-22
Mr. Carlos C. Tan	Philippines	Regional Wet and Dry Analysis Using Runs Theory	Thesis # WA-82-26
Mr. Sompong Boonprasert	Thailand	Evaluation of the Phitsanulok Irrigation Project (Wet Season)	Thesis # WA-83-1
Mr. Garoon Larpisutisaroj	"	Distribution of Flood Volume	Thesis # WA-83-6
Mr. Daniel S. Mostrales	Philippines	Incorporation of Correlated Flows into the Linear Decision Rule	Thesis # WA-83-8
Mr. Hariadi Poerwito	Indonesia	Optimization of Power Generation from the Krasieo Irrigation Dam	Thesis # WA-83-11
Mr. Quirino A. Romano, Jr.	Philippines	Distribution-Free Approach to Sum of Correlated Variates	Thesis # WA-83-14
Mr. Siripong Siriswatdibutr	Thailand	Oceanography and Coastal Morphology of Ao Phai	Thesis # WA-83-16
Mr. Pornsak Supparatarn	"	Beach Plan Form Deformation	Thesis # WA-83-17
Mr. Watchara Hemruchatanun	"	Combined Operation of Fuse Dike and Service Spillway	Thesis # WA-84-8
Mr. Achmad Lanti	Indonesia	Two Dimensional Flood Plain Modelling	Thesis # WA-83-21
Mr. Loh Chee Kit	Singapore	Effects of Marine Terminal on Tidal Flows: A Numerical Model	Thesis # WA-84-12
Mr. Wirat Ongprasert	Thailand	Current Pattern along the West Coast of Phuket/Wave Characteristics at Khanom	Special Study # SSPR-WA-84-4
Mr. Laksana Gandaatmadja Abednego	Indonesia	A Transient Model of Ripple Formation	Thesis # WA-84-1

	Indonesia	Malaysia	Philippines	Singapore	Thailand	Total
<u>US-ASEAN SCHOLARSHIP HOLDERS AT AIT/JANUARY 1984</u>						
No. Students Enrolling January 1984	10	4*	2	7*	6	29
No. Students Enrolling September 1983	2	-	-	-	6	8
No. Students Enrolling May 1983	1	3+2*	-	-	-	6
No. Students Enrolling January 1983	1	-	-	-	-	1
No. Students Enrolling September 1982	1	1	2	-	-	4
No. Students Extending Program	2	-	1	-	2	5
Total Students As of January 1984	17	10	5	7	14	53
*Diploma & PCAD Program						
<u>US-ASEAN SCHOLARSHIP AWARDEES COMPLETING PROGRAM</u>						
No. Awardees Completing Masters Degree	16	1	31	6	39	93
No. Awardees Completing Diploma Program	1	-	-	-	-	1
No. Awardees Completing PCAD/Certificate	1	1	-	36	-	38
No. Awardees Completing Special Course	-	8	-	-	-	8
Total Awardees Completing As of Dec. 1983	18	10	31	42	39	140
<u>US-ASEAN SCHOLARSHIP AWARDEES DISMISSED/WITHDRAWING</u>						
No. Awardees Leaving in December 1982	-	-	1	-	-	1
No. Awardees Leaving in February 1982	-	1	-	-	-	1
No. Awardees Leaving in August 1981	1	-	1	1	-	3
No. Awardees Leaving in April 1981	1	-	-	-	-	1
No. Awardees Leaving in December 1980	1	-	2	-	-	3
No. Awardees Leaving in August 1980	1	1	1	-	-	3
No. Awardees Leaving in April 1980	-	-	1	-	-	1
Total Awardees Leaving As of Dec. 1982	4	2	6	1	-	13
TOTAL AWARDS MADE AS OF JANUARY 1984	39	22	42	50	53	206

January 30, 1984
/ys

Each entry in the main list is identified by a code, for example:

XX AL CR 76 CO A 00

- XX refers to Academic Division attended
- AL refers to an AIT Alumnus
- CR refers to the Country of Residence, in code as given below
- 76 refers to the Year of Graduation of Highest degree attained
- CO refers to the Country of Origin, in code as given below
- A refers to the Highest AIT Degree Attained - in code
- 00 refers to a Serial Number for identification purposes

The following abbreviations are used in the Directory code:

1. Countries
2. Academic Divisions Attended
3. AIT Degree Attained

CODE OF COUNTRIES

<u>COUNTRY</u>	<u>CODE</u>	<u>COUNTRY</u>	<u>CODE</u>
Afghanistan	AF	Nepal	NP
Australia	AT	Netherlands	NL
Bangladesh	BG	New Zealand	NZ
Brazil	BL	Nigeria	NG
Brunei	BX	Norway	NW
Burma	BM	Pakistan	PK
Canada	CN	Papua New Guinea	PN
China, Republic of	CH	Philippines	PH
Denmark	DM	Saudi Arabia	SU
France	FR	Singapore	SI
Gambia	GB	South Africa	SA
Germany, Federal Republic of	GM	Sri Lanka	SL
Ghana	GN	Sudan	SD
Hong Kong	HK	Switzerland	SZ
India	II	Tanzania	TZ
Indonesia	IO	Thailand	TH
Iran	IR	Turkey	TU
Iraq	IQ	Union of Soviet Socialist	UR
Israel	IS	United Arab Emirates	UA
Japan	JA	United Kingdom	UK
Kampuchea	KM	United States of America	US
Korea	KO	Vietnam	VN
Kuwait	KU	West Indies	WI
Laos	LO	Yemen Arab Republic	YA
Libya	LY		
Macao	MC	Address Unknown	XX
Malaysia	MY	Employed/Residing in AIT	YY
Mauritius	MR	Deceased Alumni	ZZ

CODE OF ACADEMIC DIVISIONS

<u>DIVISION</u>	<u>CODE</u>
Agricultural and Food Engineering	AE
Computer Applications	CA
Community and Regional Development	CO
Energy Technology	ET
Environmental Engineering	EV
Geotechnical and Transportation Engineering	GT
Human Settlements Development	HS
Industrial Engineering and Management	IE
Structural Engineering and Construction	ST
Water Resources Engineering	WR

CODE OF AIT DEGREES

<u>TITLE EARNED</u>	<u>CODE</u>
Master of Engineering	1
Master of Science	2
Doctor of Engineering	3
Doctor of Technical Science	4
Diploma	5
Certificate (Volunteer Affiliate Membership)	6

ASIAN INSTITUTE OF TECHNOLOGY

List of the Recipients and Contact Addresses

THE US-ASEAN SCHOLARSHIPS

AWARDS GRANTED IN JANUARY 1980

1. MR. LEOPOLDO ANOG CATABAY (AEALPH81PH102)
Cataggaman Viejo
Tuguegarao
Cagayan
Philippines
CIADP
2nd Floor, Sarmiento Building
Ayala Avenue, Makati
Metro Manila, Philippines
Tel. 89.99.29
2. MR. FRANKLIN S. RAMONES (AEALPH81PH105)
805 Del Pilar Street
Cabanatuan City
Philippines
Agricultural Engineer
National Irrigation Admin.
Cauayan, Isabela
Philippines
3. MR. AURELIO A. DE LOS REYES, JR. (AEALPH82PH101)
1596 Magpily Street
Sta. Cruz
Laguna
Philippines
College of Engineering and Agro-
Industrial Technology
U.P. at Los Banos
College, Laguna 3720
Philippines
4. MR. HARSONO (AEALIO81IO201)
Demakan Lama RT. I
RK Sudabaran, Tegalredjo
Jogjakarta
Indonesia
Fakulti Teknologi Pertanian
Universitas Gadjahmada
Jogjakarta
Indonesia
5. MR. NOPPADOL SRESUPARP (AEALTH81TH104)
285/17 Soi Pongpetch
Prachanivate 3
Nonthaburi 11000
Thailand
Land Operation Division
Agricultural Land Reform Office
166 Pradiphat Road, Sapan Kwai
Bangkok 10400, Thailand
Tel. 2785360-64

6. MR. BAMBANG N. PRAMUDYA (AEALIO81IO102)
Jalan Jagung 27
Perumahan IPB
Baranangsiang I
Bogor, Indonesia
7. MR. CHUSAK NARKPRASIT (AEALTH81TH203)
759/2 Tinnarak Road
Ampur Kaengkoi
Saraburi 18110
Thailand
C.P. Intertrade
Thawit Building
61 Kasemraj Road
Klong Toey, Bangkok 10110
Thailand
Tel. 2864142, 2860898
8. MISS LIENDA ALIWARGA (AEALIO81IO101)
Karet Pedunenan 7
Jakarta
Indonesia
Tel. 512344
Chemical Engineering Department
Bandung Institute of Technology
Jl. Ganesha 10, Bandung
Indonesia
Tel. 84252
9. MR. ROBERT KRAEMER MANURUNG (ETALIO82IO101)
Jl. Rajwali Bagusranjin, II
Bandung
Indonesia
Chemical Engineering Department
Bandung Institute of Technology
Jl. Ganesha 10, Bandung
Indonesia
Tel. 84252
10. MISS SOMPAN POOLPOL (ETALTH82TH102)
812/178 Prachachuan Road
Bangsue, Dusit
Bangkok 10800
Thailand
Dept. of Chemical Technology
Faculty of Science
Chulalongkorn University
Bangkok 10500, Thailand
Tel. 2527988, 2511912
11. MR. SUPACHART CHUNGPAIBULPATANA (ETALYY82TH101)
195/37 Soi Withayalai Kru
Petchburi
Petchburi Road, Phayathai
Bangkok 10400
Thailand
Tel. 2825707
Research Associate
Division of Energy Technology
Asian Institute of Technology
G.P.O. Box 2754
Bangkok 10501, Thailand
Tel. 5239300-13 ext. 372

12. MR. MARIO M. GULINAO (WRALPH81PH103)
 17-A, Santan St. Yuchausti National Irrigation Admin.
 Subdivision Potrero, Malaban EDSA, Quezon City
 Metro Manila, Philippines Philippines
 Tel. 3618991 Tel. 98.78.02
13. MR. EDUARDO C. ABORES (WRALPH81PH102)
 3547 Bulacao TCGI/Electrowatt Eng. Serv. Ltd.
 Talisay, Ceby Manila Water Supply II Proj.Ofc.
 Philippines P.O. Box 7443, ADC-MIA
 Philippines
 Tel. 953211 to 29
14. MR. RENATO S. GAMBOA (WRALPH82PH104)
 109 Adalia Street Irrigators Assistance Dept.
 East 10th Avenue 3rd Floor, NIA Building A
 Caloocan City EDSA, Quezon City
 Metro Manila Metro Manila
 Philippines Philippines

AWARDS GRANTED IN SEPTEMBER 1980

1. MRS. KANDA GLINSORN (EVALTH82TH201)
 166/67 Sukkapibal 2 Road Dept. of Industrial Works
 Bangkapi Ministry of Industry
 Bangkok 10240 Rama 6 Road, Phyathai
 Thailand Bangkok 10400, Thailand
 Tel. 3146179 Tel. 2821733 ext. 536
2. MISS ATCHARAPHAN PHUANGTHONG (EVALTH82TH202)
 58 Paholyothin Soi 4 Environmental Division
 Phyathai Electricity Generating Authority
 Bangkok 10400 Rama 6 Bridge, Nonthaburi 11000
 Thailand Thailand
 Tel. 2780963 Tel. 4240101 ext. 585
3. MR. KUSMULYANA USMAN (EVALIO82IO101)
 Jl. Angklung No. 3 Dept. of Sanitary Engineering
 Bandung Bandung Institute of Technology
 Indonesia Jl. Ganesha 10, Bandung
 Indonesia
 Tel. 82647

4. MR. LIM, THIAN LOKE (GTALSI82SI102)
 1649, Block L, Lagoon View
 Marine Parade Road
 Singapore 1544
 Rep. of Singapore
 Tel. 4458510
 Special Services Branch
 Public Works Department
 Kallang, Singapore 1439
 Rep. of Singapore
5. MR. SMART RATCHAPOLSITTE (GTALJA82TH105)
 48 Tetsaban Nimit Nua Road
 Prachanives 1 Village
 Bangkok, Bangkok 10900
 Thailand
 Surveying Laboratory
 Dept. of Civil Engineering
 University of Tokyo
 7-3-1 Hongo, Tokyo-113
 Japan
 Tel. (03) 8122111 ext. 6129
6. MR. GANDHI HARAHAHAP (GTALIO82IO102)
 Jl. Pejompongan III A/22
 Jakarta Pusat
 Indonesia
 DIT. Palan Bina Marga
 Jl. Pattimura - 20
 Kebayoran Baru, Jakarta Selatan
 Indonesia
7. MISS MARY LOU L. ALCID (HSALPH82PH202)
 41 Mabait St.
 Teachers' Village
 Diliman, Quezon City
 Philippines
8. MISS THIPPARAT CHIRATHAMKIJKUL (HSALTH82TH201)
 8 Soi 13, Mooban Seri 4
 Suan Luang
 Prakanong, Bangkok 10110
 Thailand
 Research & Construction Dept.
 National Housing Authority
 Klong Chan, Bangkok 10240
 Thailand
9. MR. ILDEFONSO R. SANTOS (HSALPH82PH208)
 4227 Mojica Street
 Bangkal, Makati
 Metro Manila
 Philippines
 Technology Resources Center
 Ministry of Human Settlements
 TRC Building, Buendia Ave. Ext.
 Makati, Metro Manila
 Philippines
 Tel. 85.98.11

10. MR. NOPANANT TAPANANONT (HSALTH82TH206)
 222 Sukhumvit 71
 Prakanong
 Bangkok 10110
 Thailand
 Division of Specific Planning
 Dept. of Town & Country Planning
 Ministry of Interior, Huay Kwang
 Bangkok 10310, Thailand
 Tel. 2459971
11. MR. NANTASAK ROONPRABHAN (HSALTH83TH202)
 278, Km. 25 Paholyothin Road
 Saimai, Bangkok
 Bangkok 10220, Thailand
 Tel. 5238491
12. MISS ZOUHRAWATY ABDULLAH ARIFF (WRALIO82IO101)
 Jl. Lumba Lumba No. 1
 Bandar Baru
 Banda Aceh
 Indonesia
 Fakultas Teknik
 Universitas Syiah Kuala
 Darussalam, Banda Aceh
 Indonesia
 Tel. 21038
13. MR. PRASIT PONVILAI (WRALYY82TH102)
 201 Soi Permsin
 Huay Kwang
 Bangkok 10310
 Thailand
 Research Associate
 Division of Water Resources Eng.
 Asian Institute of Technology
 G.P.O. Box 2754
 Bangkok 10501, Thailand
 Tel. 2771545
 Tel. 5239300-13 ext. 232
14. MR. THAWAT SINGH-POO (WRALTH82TH106)
 123/163 Tumbol Sila
 Ampur Muang
 Khonkaen - 40000
 Thailand
 Faculty of Engineering
 Khonkaen University
 Khonkaen - 40002
 Thailand
15. MR. CARLOS CANDA TAN (WRALPH82PH102)
 c/o Teresita M. Roblo
 2417-A Syquia St.
 Sta. Ana, Manila
 Philippines
 Tel. Office 817.66.71

AWARDS GRANTED IN JANUARY 1981

1. MR. ADIL SURBAKTI (AEALIO82IO501)
 Jl. Jend. Gatot-Subroto 168 A Fakultas Teknik USU
 Medan Jl. Prof. Maas Kampus USU
 Indonesia Medan, Indonesia

2. MR. CAESAR A. CELOCIA (AEALPH83PH102)
 Camp-14, Philips Central Mindanao University
 Bukidnon Musuan, Bukidnon
 Philippines 8215 Philippines 8213

3. MRS. NURPILIHAN HILMANSJAH (AEALIO82IO201)
 Jl. Kembar Baru
 Selatan III No. 3
 Bandung, Indonesia

4. MR. NESTOR LAZARO OGUIS (AEALPH82PH103)
 130-5 Lusong Compound
 M.H. del Pilar Street
 Sto. Tomas, Pasig
 Metro Manila, Philippines Tel. Office 625352, 611521-25

5. MR. ALAN LUDOVICE PRESBITERO (AEALPH83PH101)
 44.9 First Park Subdivision Dept. of Agricultural Eng.
 Daraga, Albay and Applied Mathematics
 Philippines 4912 Visayas State College of Agric.
 Baybay, Leyte, Philippines 7127

6. MR. NAND KRAIRIKSH (AEALTH82TH203)
 15/4 Soi Chaengwatana 14 Soil Survey Division
 Bangkok Dept. of Land Development
 Bangkok 10900 Paholyothin Road, Bangkok
 Thailand Bangkok 10900, Thailand
 Tel. 5790111 ext. 246

7. MR. PRAJUAB THONGPLAVE (AEALTH82TH204)
 Faculture of Agriculture
 Bang Pra Campus ,Sriracha
 Chonburi 20210, Thailand
 Tel. 311512

35

8. MR. NORMAN T. SOLIS (AEALYY82PH104)
 143 Rizal St., Poblacion
 Mangaldan, Pangasinan
 Philippines
 Program Associate
 Continuing Education Center
 Asian Institute of Technology
 G.P.O. Box 2754
 Bangkok 10501, Thailand
 Tel. 5239300-13 ext. 8-115
9. MISS ONRAWEE TECHASENA (AEALTH82TH202)
 580/46 Soi Pohpan
 Asoke-Dindaeng Road
 Huaykwang, Bangkok 10400
 Thailand
 Inst. of Food Research and
 Product Development
 P.O. Box 4-170
 Bangkok 10400, Thailand
10. MR. CONCHITO PANGASIAN TALABOC (CAALPH83PH101)
 160 National Highway
 Tipan, Oroquieta City
 Misamis Occidental
 Philippines 9108
 National Power Corporation
 Mindanao Regional Center
 Ditucalan, Iligan City
 Philippines 8801
11. MR. CHIA, CHEE LIONG (CAALSI82SI201)
 Block 1, 185-J
 Queen's Road
 Singapore 1026
 Tel. 636030
 Singapore Polytechnic
 Dover Road
 Singapore 0513
 Tel. 7751133
12. MISS KHOO, BENG YANG (CAALSI82SI202)
 Blk 95, Havelock Road
 #11-585, Singapore 0316
 Republic of Singapore
13. MISS LEONG, CHEEN FAH (CAALSI82SI203)
 295, Joo Chiat Road
 Singapore 1542
 Republic of Singapore
 Tel. 344-5482
14. MR. SUPHAMIT CHITTAYASOTHORN (CAALTH82TH102)
 68/7, Soi Chokchai Ruammitr
 Viphavadi Rangsit Road
 Bangkok
 Bangkok 10900
 Thailand
 Tel. 277-3586
 Dept. of Computer Engineering
 King Mongkut's Institute of
 Technology
 Ladkrabang Campus
 Lampratiew, Ladkrabang
 Bangkok 10520, Thailand
 Tel. 5250160-62

15. MISS REBECCA ATILLO ALIVIO (ETALPH82PH101)
 c/o Mrs. Ali A. Tabucanon 186-1, Tres De Abril St.
 St. Joseph Village Labangon
 Mingloanilla, Cebu Cebu City 6401
 Philippines Philippines
16. MR. WIDHOON CHIAMCHITTRONG (ETALTH82TH105)
 656/244, Soi Srithongdee Project Engineering Division
 Jaransanitwong Road Engineering Department
 Bangkok 10700 Electricity Generating Auth.
 Thailand Bangkokruay, Nonthaburi 11000
 Thailand
 Tel. 4241051 Tel. 4240101 ext. 3359, 3351
17. MAJ. THAMNONG OUNSAKUL (ETALTH83TH102)
 202/5, Soi 11 Military Research and
 Rangsit Community Housing Development Center
 Thanyaburi 175 Soi Klüay Nam Thai
 Pathumthani 12110 Rama VI Road, Bangkok 10110
 Thailand Thailand
 Tel. 3910955

AWARDS GRANTED IN MAY 1981

1. MR. RICARDO A. HILARIO, II (HSALPH82PH206)
 107, 13th Avenue National Environmental
 Cubao Protection Council
 Metro Manila 3001 6th Floor, Heart Center Building
 Philippines East Avenue, Diliman
 Metro Manila 3004, Philippines
 Tel. 787539 Tel. 980421 ext. 2637
2. MISS NORA ASILO MARTINEZ (HSALPH82PH207)
 Sangalang St. Center for Policy and
 Lemery, Batangas Development Studies
 Philippines 4205 University of the Philippines
 College Laguna, Philippines
 Tel. 2270

3. MR. NOPADON SAHACHAISAEEREE (HSALTH82TH213)
 566/133, Soi Kijpanich
 Rama VI Road
 Bangkok 10500
 Thailand
 Tel. 2353194
 Dept. of Architectural Eng.
 King Mongkut's Institute of
 Technology
 Ladkrabang Campus
 Lampratiew, Ladkrabang
 Bangkok 10520, Thailand
 Tel. 5250160-62
4. MR. CHANVIT VASAYANGKURA (HSALTH82TH216)
 55/28 Soi Chinnakhet 1
 Ngamwongwarn Road
 Bangkok
 Bangkok 10900
 Thailand
 Office of Regional Cities
 Development Program (ORCD)
 5th Fl., Local Education Bldg.
 Sunantha Palace, Ratchasima Rd.
 Bangkok 10300, Thailand
 Tel. 2822886, 2813737
5. MR. SITTICHOD WANTAWIN (HSALTH82TH217)
 304/132 Bang Bua Housing
 Paholyothin Road
 Bangkok
 Bangkok 10210
 Thailand
 Regional Planning Division
 National Economic and Social
 Development Board
 962 Krung Kasem Road
 Bangkok 10100, Thailand
 Tel. 28292571
6. MR. SOMPONG BOONPRASERT (WRALYY82TH107)
 1/116, Soi Somboonsook
 Prachachuan Road
 Bangsue, Dusit
 Bangkok 10800
 Thailand
 Tel. 5881641
 Research Associate
 Water Resources Engineering Div.
 Asian Institute of Technology
 P.O. Box 2754
 Bangkok 10501, Thailand
 Tel. 5239300-13 ext. 327
7. MR. GAROON LARPVISUTISAROJ (WRALTH82TH109)
 288/44, Flat No. 201
 Rajprarob Road
 Phyathai, Bangkok 10400
 Thailand
 Dam Design Section
 Royal Irrigation Department
 Samsen Road
 Bangkok 10300, Thailand
 Tel. 2415056
8. MR. DANIEL S. MOSTRALES (WRALPH82PH105)
 691 Lapulapu St.
 Midsayap
 North Cotabato
 Philippines
 M S U
 Iligan Institute of Technology
 Iligan City 8801
 Philippines

9. MR. HARIADI POERWITO (WRALIO82IO102)
 Jl. Setiabudi 240 P.T. Indah Karya
 Bandung Jl. Ir. H. Juanda 63
 Indonesia Bandung, Indonesia
 Tel. 82538 Tel. 58611-12
10. MR. QUIRINO A. ROMANO, JR. (WRALPH82PH106)
 Rosales Blvd. c/o Jesse S. Binamira
 Calbayog City 19 Mercury Bel Air Village
 Philippines Paseo de Roxas, Makati
 Metro Manila, Philippines
11. MR. SIRIPONG SIRISWATDIBUTR (WRALTH82TH110)
 41/21 Soi Bangsakae (Chan Klin)
 Bangkiao, Bangkhunthien
 Bangkok 10150, Thailand
 Tel. 4668287
12. MR. PORNSAK SUPPATARATARN (WRALYY82TH111)
 16 Cheeranusorn Research Associate
 Haad Yai Water Resources Engineering Div.
 Songkhla 90110 Asian Institute of Technology
 Thailand P.O. Box 2754
 Bangkok 10501, Thailand
 Tel. 5239300-13 ext. 327

AWARDS GRANTED IN SEPTEMBER 1981

1. MISS ESTER B. ALVAREZ (EVALPH83PH102)
 Checkpoint, Patag National Pollution Control
 Cagayan de Oro City Commission
 Philippines Patag-Bulua Bdry.
 Cagayan de Oro City
 Philippines
 Tel. 24-50
2. MR. WLADIMIR ASKININ BAMAYI (EVALIO83IO101)
 Komplek PU Cipta Karya Laboratorium Direktorat Teknik
 "Pasar Jum'at", Brecast F.70 Penyehatan
 Tk. 4/No. 1, Pondok Pinang Dirjen Cipta Karya PU
 Jakarta Selatan Jalan Penjernihan II
 Indonesia Pejompongan, Jakarta Pusat
 Indonesia
 Tel. 582405

3. MISS MENDELUZ BAUTISTA (EVALYY83PH201)
 148 Valdefuente
 Cabanatuan City
 Philippines
 Program Officer
 Continuing Education Center
 Asian Institute of Technology
 P.O. Box 2754
 Bangkok, Thailand
 Tel. 5239300-13
4. MR. RAMON COSTALES DE MESA (EVALPH83PH103)
 158 M. Roxas St.
 Baguio City
 Philippines
 Metropolitan Waterworks and
 Sewerage System
 Human Resource Devt. Office
 Katipunan Road, Balara
 Quezon City, Philippines
 Tel. 953211 local 135, 136, 145
5. MR. BIENVENIDO G. GAURINO (EVALPH83PH104)
 51, 1st Avenue
 Goodrich Village
 Concepcion, Marikina
 Metro Manila
 Philippines
 Metropolitan Waterworks and
 Sewerage System
 Katipunan Road, Balara
 Quezon City, Metro Manila
 Philippines
 Tel. 953211-26 local 270, 271
6. MR. PREECHA LOOSEREEWANICH (EVALTH83TH201)
 74 Mahachai Road
 Samranrat
 Bangkok 10200
 Thailand
 Tel. 2222977
 Environmental Health Science Div.
 Faculty of Public Health
 Mahidol University
 420/1, Rajvithi Road
 Phayathai, Bangkok 10400
 Thailand
 Tel. 2827829 ext. 38
7. MR. PAMEKAS (EVALIO83IO102)
 Jalan Salendro timur IX/9
 Turangga, Bandung
 Indonesia
 Jalan Ir. H. Juanda 63
 Bandung
 Indonesia
8. MISS WANIDA SRICHAJ (EVALTH83TH204)
 95/58 Triphet Street
 Bangkok 10200
 Thailand
 Tel. 2210753
 Dept. of Chemistry
 Kasetsart University
 Paholyothin Road
 Bangkok, Bangkok 10900
 Thailand

15. MR. FERNANDO YAN ROXAS (GTALPH83PH203)
 3425 M. Arellano National Power Corp.
 Lourdes Subd. Corner Quezon Ave.
 Sta. Mesa, Manila B.I.R. Road, Diliman
 Philippines Quezon City, P.O. Box 10183
 Philippines
16. MR. ANTONINO C.S. ALIGAEN (STALPH83PH102)
 #2, Junji St.
 Bo. Kaligayahan
 Novaliches 3006
 Quezon City, Metro Manila
 Philippines
 Tel. 904303

AWARDED GRANTED IN JANUARY 1982

1. MISS PETCHARAT KARNJANASIRIWAN (AEALTH83TH201)
 7/343 Soi Ounanusorn 2
 Viphavadee Rangsit Road
 Bangkhen, Bangkok 10900
 Thailand
2. MR. CHAWALIT ORACHUNWONG (AEALTH83TH203)
 450/23 Siriratsattha Road
 Paknam, Samutprakarn 10270
 Thailand
3. MR. SURIN CHARNYAPORNPOONG (CAALTH83TH101)
 75 Charoenwieng Road IBM Thailand Company Limited
 Bangrak, Bangkok 10500 1 Silom Road
 Thailand Bangkok 10500, Thailand
 Tel. 2348735 Tel. 2330111, 2330121
4. MISS CHONG, HOI NENG (CAALSI83SI201)
 52 Mulberry Avenue
 Singapore 1334
 Republic of Singapore
 Tel. 2887192

5. MR. CHALERM YIENGSUBHANOND (CAALTH83TH104)
 979/1, Sathupradit Road
 Yannawa, Bangkok 10120
 Thailand
 Tel. 2111001
 IBM Thailand Company Limited
 1 Silom Road
 Bangkok 10500, Thailand
 Tel. 23300111, 2330121
6. MR. TEERA SIRATANAPANTA (ETALTH83TH103)
 9 Moo 4, San Sai Luang
 Ampur San Sai
 Chiang Mai 50210
 Thailand
 Tel. (053) 221624, 221484
 Dept. of Mechanical Engineering
 Faculty of Engineering
 Chiang Mai University
 Chiang Mai 50002
 Thailand
7. MR. MUHJIDIN MAWARDI (AEALIO83IO103)
 Fakultas Teknologi Pertanian
 Universitas Gadjah Mada
 Bulaksumur, Yogyakarta
 Indonesia
 Tel. 88688 ext. 615, 655
8. MR. SUYITNO TJOKRODIHARDJO (AEALIO83IO104)
 Pogung Baru B-15
 Jalan Kaliurang Km. 5
 Yogyakarta
 Indonesia
 Faculty of Agricultural Tech.
 Gadjah Mada University
 Bulaksumur, Yogyakarta
 Indonesia
 Tel. 88688 ext. 522

AWARDS GRANTED IN MAY 1982

1. MRS. ORAJIT BUMROONGSAKULSAWAT (HSALTH83TH203)
 2508/305 Din Daeng Flat 3
 Din Daeng Road
 Phyathai
 Bangkok 10400
 Thailand
 Infrastructure Projects Division
 National Economic and Social
 Development Board
 962 Krung Kasem Road
 Bangkok 10100, Thailand
 Tel. 2816327-28
2. MISS ELIZABETH A. GABUAT (HSALPH83PH202)
 58, 10th St., 8th Ave.
 Grace Park
 Caloocan City
 Philippines

3. MISS DELIA PAREL NASAYAO (HSALPH83PH205)
 9181 Balagtas St. (Cor. Mactan) Strategic Planning Group (MHS)
 Guadalupe, Makati 5th Floor, Agustin I Building
 Metro Manila Emerald Avenue, Pasig
 Philippines Metro Manila, Philippines
 Tel. 6732340, 6731936 to 58
 local planning
4. MR. SALLEH BIN HAJI MOHAMMAD (HSALMY83MY201)
 1134 E, Jln. Pasir Panjang Central Trengganu Development
 Kuala Trengganu Authority
 Trengganu Dewan Undangan Negert
 Malaysia Jln. Cerong Lanjut
 Kuala Trengganu, Trengganu
 Malaysia
5. MISS REGINA WARREN ROBLES (IEALPH83PH101)
 222 Wilson Street
 Greenhills, San Juan
 Metro Manila
 Philippines
 Tel. 794524
6. SOMJATE SAIFON (IEALTH83TH102)
 c/o Miss Wilairat Wangchareonwong
 Research Associate
 Division of Environmental Engineering
 Asian Institute of Technology
 P.O. Box 2754
 Bangkok 10501, Thailand
7. MISS RUBI EVANGELINE KABIGTING SEVILLA (IEALPH83PH102)
 174 Rd. 2, Don Marcos Ave.
 Old Balara, Quezon City
 Philippines
8. MR. WATCHARA HEMRUCHATANUN (WRALTH83TH103)
 3/18 Pohsamton Lane Electricity Generating Authotiry
 Isaraparb Road, Bangkokyai Bangkruay, Nonthaburi 11000
 Bangkok 10600, Thailand Thailand
 Tel. 4655649 Tel. 4240101-10 ext. 3452

9. MR. ACHMAD LANTI (WRALIO83IO101)
Project Manager
Pemimpin Proyek Irigasi WS-WS
PIBD, Jln. Gatot Subroto No. 57
Telukbetung, Lampung
Indonesia
Tel. 777520
Telex: 27318 ECITKG
10. MR. LOH, CHEE KIT (WRALSI83SI101)
Apartment Block 101
Spottiswoode Park Road
Singapore 0208
Republic of Singapore
11. MR. WIRAT ONGPRASERT (WRALTH83TH107)
61/13 Soi Wat Ratsitharam
Issaraparb Road
Bangkokyai, Bangkok 10600
Thailand
Tel. 4650361
12. MR. LAKSANA GANDAATMADJA ABEDNEGO (WRALIO83IO102)
Jl. Abadi I No. 33
Gegerkalong Hilir
Bandung
Indonesia
Tel. 84915
Institut Teknologi Bandung
Dept. SIPIL-FTSP
Jl. Ganesha 10, Bandung
Indonesia
Tel. 84252 ext. 330