



serving Asia and the World

Asian Institute of Technology

1997 Annual Report

Cover:

From a modest beginning in 1959 when the initial student intake was from just three countries - Pakistan, the Philippines and Thailand, AIT's mission has grown to reflect the globalization of learning and encompasses advanced education, research and outreach.

With its current student body drawn from over 50 countries, AIT now reaches out to the whole of Asia and, through Asia, to the world.

1997 Annual Report of the Asian Institute of Technology
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EVENTS

PROMOTING INTERNATIONAL COOPERATION IN SPACE

On 19 December HRH Princess Maha Chakri Sirindhorn, AIT Honorary Faculty Member associated with the Space Technology and Applications Research Program, presided over the inauguration of the Asian Center for Research on Remote Sensing (ACRoRS). Jointly founded by AIT and the Asian Association on Remote Sensing (AARS), the Center paves the way for greater collaboration in remote sensing research throughout the region. ACRoRS is featured on page 17.



Her Royal Highness is seen being welcomed by, from right: AARS Secretary General and ACRoRS Advisor Prof. Shunji Murai; Prof. Karl E. Weber, AIT Vice President for Academic Affairs; H. E. Mr. Hiroshi Ota, Japanese Ambassador to Thailand; and AIT President Prof. Roger G. H. Downer.

HSD 20TH ANNIVERSARY

1973 marked a breakthrough at AIT with the introduction of a program in urban and regional planning, the Institute's first venture in a non-engineering field. It was originally conceptualized as a part of the former Division of Systems Engineering, which was later divided into Engineering and Management and Community and Regional Development. In 1978, the latter split into Agricultural and Food Engineering and Human Settlements Development (HSD).

The HSD 20/2000 conference held on 10-13 December featured HSD's first two decades. The conference reviewed the Program's achievements since its establishment 20 years ago and discussed responses to future challenges. It projected an optimistic future for environmental, management and development studies at AIT.

Former and present HSD faculty members joined the conference, from left: Prof. Shue Tuck Wong (Canadian faculty, 1977-81), Mr. H. D. Kammeier



(German faculty since 1976), Mr. J. H. de Goede (Dutch, first Division Chairman, 1978); Prof. Karl E. Weber (German faculty since 1978), Mr. S. Benjamin (Canadian faculty, 1973-75), and Prof. H. Kaji (Japanese faculty, 1978-81).

LECTURES

Nobel Laureate

Nobel Laureate Prof. Dr. Heinrich Rohrer presented a lecture on 22 May on the topic, "Science and Technology on the Nanometer Scale: Challenges and Chances".

Prof. Rohrer is recognized for inventing the scanning tunneling microscope together with Gerd Binnig. He was co-recipient of the King Faisal Prize and the Hewlett Packard Europhysics Prize in 1984 and the Nobel Prize in Physics in 1986. Prof. Rohrer received the Cresson Medal of the Franklin Institute in Philadelphia, USA, in 1987, and was inducted to the United States National Inventors Hall of Fame in 1994.



Prof. Rohrer

Fifth Milton E. Bender Lecture

Prof. Douglas Wright, former President of the University of Waterloo in Canada, delivered the fifth lecture in the annual Milton E. Bender Lecture Series.

Prof. Wright spoke at AIT on 6 March on the topic, "Engineering the New Economy".

Prof. Wright has nearly five decades of active experience in structural engineering and university administration. He is known for his pioneering research in plastic design of steel structures together with the late Sir John Baker of Cambridge University and Prof. Michael R. Home. Prof. Wright was educated at the University of Illinois and Cambridge University.

AIT introduced the Milton E. Bender Lecture Series in 1993 in honor of its first President, Dr. Milton E. Bender.



Prof. Wright

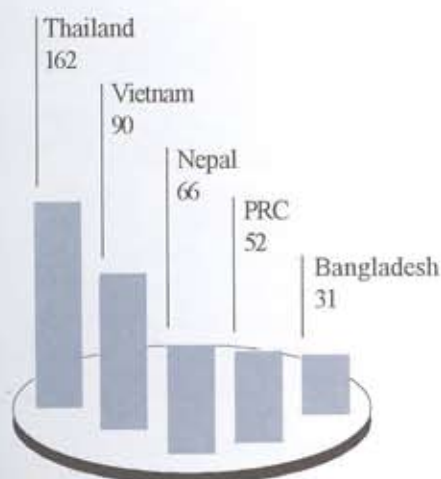
ALUMNI

AITAA SURPASSES FUND-RAISING TARGET

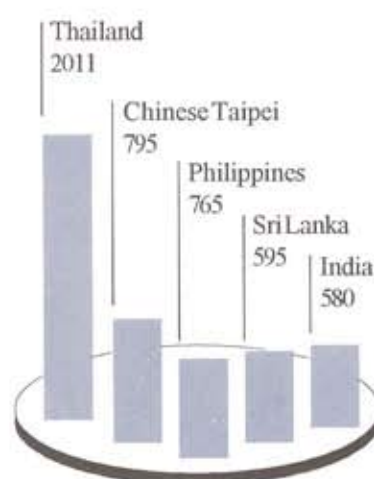


By the end of 1997, the AIT Alumni Association-assisted fund-raising campaign for the Institute yielded US\$1.8 million, surpassing its original target of US\$1.3 million. On 23 January, Mom Luang Birabhongse Kasemsri, Chairperson of the AIT Board of Trustees, received US\$ 630,200 from AITAA President, Mr. Surendra Shrestha. The amount represented AITAA-assisted grants since the campaign's launch in mid-1996. Looking on is AIT President, Prof. Roger G. H. Downer.

FIVE LARGEST GROUPS OF GRADUATES IN 1997



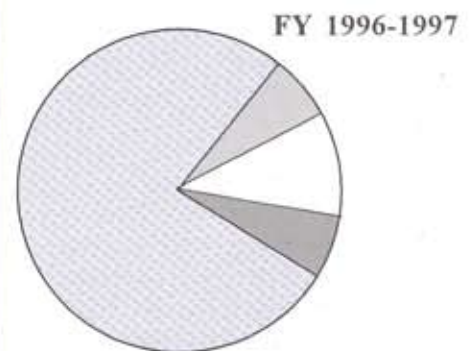
FIVE LARGEST GROUPS OF ALUMNI (1961-1997)



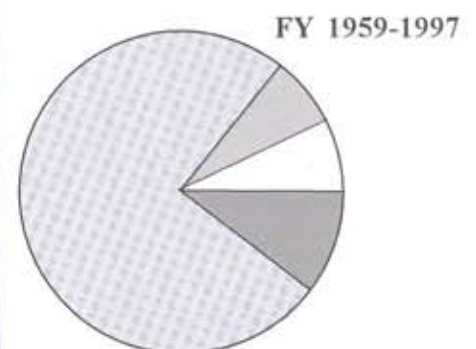
RESOURCE GENERATION

TOTAL CONTRIBUTIONS RECEIVED IN FY 1996-97:
Baht 927,960,000.-

TOTAL CONTRIBUTIONS RECEIVED BY SECTOR



- Governments 73.14%
- International Organizations 7.45%
- National Government Agencies 11.88%
- Business, Foundations, Private Individuals and Others 7.53%



- Governments 74.54%
- International Organizations 7.45%
- National Government Agencies 7.95%
- Business, Foundations, Private Individuals and Others 10.06%

PRESIDENT'S MESSAGE

Lord Ashby, in a splendidly erudite analysis of scientific and technological evolution (E. A. Ashby, "Technology and the Academics", McMillan & Co. Ltd., London, 1959) reminds us that humans are heirs to a dual legacy. Like all life forms, we inherit a rigorously selected genetic heritage and, in addition, we receive a rich cultural inheritance which distinguishes us from all other living things. Universities have played a pivotal role in the preservation of our cultural legacy due, in large part, to a capacity to survive during a millenium of enormous change without any sacrifice of basic values or mission. Such survival requires awareness of changing social, political, economic and technological climates and the ability to make the necessary adjustments to adapt to new operational environments.

These reflections provide solace as AIT undergoes a period of change. As an Institute, we recognize that the paradigm in which we have operated with great success and distinction for most of our 39-year history is changing rapidly. The Institute must respond to this situation by replacing activities that are no longer relevant or sustainable, compensating for the loss of traditional sponsors and ensuring that AIT is favorably positioned to take advantage of new opportunities. Thus, the past year has seen the initiation of a number of changes at AIT and, although each by itself does not appear to be major, the

collective effect will be to alter the administrative, financial and academic tenor of the Institute. In spite of Sir Eric Ashby's assurances, universities tend to be notoriously resistant to change and, in many academic institutions, attempts to effect such changes would be an exercise in futility. Therefore, it is encouraging to report that we have achieved excellent progress in the process of change and a collegial, cooperative spirit has prevailed.

The principal administrative changes have been directed towards decentralization of much of the day-to-day decision making to the level of individual operating units. Some administrative reorganization has also been implemented with the overall objectives of broadening the base of financial support for the Institute and enhancing the efficiency of institutional operations.

Two major initiatives are underway at the academic level. A task force has been asked to examine every facet of the academic program including curricula, pedagogy, evaluation, teacher training/improvement, language, thesis supervision, use of electronic technologies and "value-added" components in a student's education. The group will be making recommendations designed to enhance the overall quality of academic programs. The second academic initiative is intended to strengthen the research capacity of AIT by concentrating most of the Institute's



At its 7th international symposium, the Danube Adria Association for Automation and Manufacturing International Vienna cited AIT for its contributions to the technical sciences and international scientific cooperation. On behalf of the Association, H. E. Dr. Nikolaus Scherk, Austrian Ambassador to Thailand, presented award certificates to President Downer and faculty members from the School of Advanced Technologies, at a ceremony held on 7 February.

"The glass-ceiling phenomenon is global, but superimposed upon this in much of Asia is a long-standing cultural tradition based largely upon Confucian doctrines of family, hierarchies and social attitudes... AIT can and must play an important role in helping to ensure that the female resource is fully utilized and that women are afforded every opportunity to participate in and contribute to the attainment of societal goals."

*Soroptimist Club of Dusit
Bangkok, Thailand
January 1997*

research efforts in a few specific areas. Faculty are currently defining the areas in which AIT's research activities should be focused according to such criteria as financial sustainability, regional relevance, existing core of competence, and competitive advantage. The long-term objective is to develop at AIT a few "centers of excellence" which will compete effectively for major international funding opportunities.

As indicated earlier, the need for and process of change have been accepted by the AIT community and the transition is being effected without any obvious diminution in the volume or quality of normal institutional activities. Thus faculty, staff and students continue to bring distinction to themselves and AIT through winning recognition in various national and international fora, students register and graduate, new buildings are opened, agreements are signed and the Institute continues to be honored by visits from eminently distinguished individuals. Details of some of these disparate activities are indicated in other parts of this report but it is important to remember that, although these appear to be routine events in the life of an Institute, each requires individual effort and commitment from many people. AIT, like any university, is much more than a collection of buildings and facilities. It is a community of faculty, staff, students, alumni and friends, all of whom contribute to make the Institute what it is.

During the past year many members of this community have been seriously inconvenienced and threatened by the currency crisis which has plagued many Asian countries. In spite of these difficulties, I have sensed no loss of commitment for AIT. It is from the proven resilience and dedication of the AIT community that I derive greatest optimism for the future of the Institute. AIT has made an excellent start along the required path of change and looks forward with confidence to continuing to serve as a primary resource in advanced education, research and outreach for any government, agency or corporation with interests in promoting sustainable technological and economic development in the region.



R.G.H. Downer
President

"Research and education are essential elements in the overall formula for success in promoting economic growth through technological innovation."

*Plenary Speech
First Asean Business Summit
Jakarta, Indonesia
March 1997*

"It is no coincidence that the Asian countries which have invested most heavily in education are the ones enjoying the greatest economic benefits."

*Computers in Education
Conference
Phuket, Thailand
October 1997*

"The educational experience for our students should include more than lectures and laboratories in technical fields. We must be concerned with value added elements which increase global awareness, enhance communication skills and provide students with some business acumen and a spirit of entrepreneurship. Such graduates could be valued tools in Asia's economic growth and development."

*Colloquium on "Engineering
and Technology Education
for the 21st Century"
Suranaree University of Technology
Thailand
February 1997*

ACADEMIC AFFAIRS

ACADEMIC DEVELOPMENTS

Operational Plans

Operational planning exercises, first carried out for FY 1996-97, have become standard practice for all Schools and Centers. Along with other management indicators, the plans provide a strong basis for the preparation of the Institute's annual budget and serve as a monitoring tool for the implementation of the Strategic Plan.

The Operational Plans for FY 1998-99 spell out the objectives and targets of individual Schools and Centers, identifying activities to be carried out, resources required and targeted revenues.

Devolution of Authority

During the year considerable authority and responsibility for day-to-day decision-making was devolved from the President and the Vice President for Academic Affairs to the level of unit heads. The devolution provided the basis for the streamlining of administrative processes, encouraging an open, collegial style of management. Much of the reorganization was achieved within existing offices through reassignment of responsibilities.

NEW PROGRAMS, NEW OPPORTUNITIES

In 1997 AIT introduced three new programs: Mechatronics, the Executive MBA, and Urban Environmental Management.

Three new programs will admit their first students in January 1998. These are the Pulp and Paper Technology Program, Water Supply, Drainage and Sewerage Engineering Program, and Environmental Toxicology, Technology and Management Program, which is offered jointly with Mahidol University and the Chulabhorn Research Institute.

Implementation of the Post-graduate Technological Studies Program is imminent.

Continuing support to academic activities in Vietnam led to interesting developments in 1997. The Hanoi-based AIT Center Vietnam submitted proposals to establish a program in post harvest and food process engineering and a center for food research. Under study is a plan to introduce an energy program similar to the format of the Industrial Systems Engineering Program, which is offered in collaboration with the School of Advanced Technologies.

The second phase of the Swiss-AIT-Vietnam Management Development Program started in January 1997 with support from the Swiss Development Cooperation.

MECHATRONICS AND MICROELECTRONICS PROGRAMS

The Mechatronics Program in the School of Advanced Technologies welcomed its first group of seven Master's students in the May 1997



Mechatronics students carry out research using a KUKA robot.

term. Six students are supported by scholarships from Siemens AG, Germany, and one by the Royal Thai Government. The students will spend approximately one year of studies at AIT (including the thesis component of the curriculum) and one year at the Technical University of Hamburg-Harburg in Germany.

The development of a Microelectronics curriculum is underway in collaboration with the National Electronics and Computer Technology Center of the National Science and Technology Development Agency of Thailand. The program is expected to be introduced in the May 1999 term.



The Advance Agro Pulp and Paper Technology Building.

In a handshake following the signing of the AIT/EU agreement are AIT President Roger G. H. Downer and H.E. Mr. Michel Caillouët, Ambassador-Head of the EC Delegation to Thailand. Also in photo are, from left: Prof. Pisidhi Karasudhi, AIT Vice President for Development; Prof. Karl E. Weber, AIT Vice President for Academic Affairs; and Mr. Thierry Rommel, Counselor of the Delegation of the European Commission to Thailand.

EMBA PROGRAM

The 20-month Executive MBA Program, launched by the School of Management in September 1997, admitted its first group of students, consisting of 24 mid-level to senior managers from India, Chinese Taipei, the People's Republic of China, Vietnam, USA, and Thailand. The Program offers a flexible curriculum that allows the participants to create "personalized menus" to support their individual career pursuits and chosen areas of learning. Over 15 courses in the curriculum focus on key managerial issues and challenges faced by managers at the strategic and operational levels of business. They enhance the participants' understanding of globalization and rapid technological change and their impact on business in the Asian region and other parts of the world.



POSTGRADUATE TECHNOLOGICAL STUDIES PROGRAM

The four-year Postgraduate Technological Studies (PTS) Program, signed in September 1997 and funded by the European Commission to the tune of 2.4 million ECU, will support 90 students from the European Union to attend the Master's program at AIT, including a one-term internship at a university or business enterprise in Southeast Asia.

The PTS Program will also allow 90 Asian students to pursue internships in either a university or business enterprise in the European Union. During this period, they will gather data for their Master's degree research.

The EMBA Program provides extensive opportunities to network with executives from companies based in Thailand and other countries.



PULP AND PAPER TECHNOLOGY PROGRAM

The proposed Pulp and Paper Technology (PPT) Program in the School of Environment, Resources and Development, presented its curriculum at a seminar, "Development Prospects for Pulp and Paper Industry in South-East Asia", which was held in March. Major recommendations and significant inputs provided by representatives from industry, government agencies, and academic institutions were subsequently incorporated in the curriculum. The seminar was sponsored by the Government of Finland, which provided some US\$3.5 million, in the form of grants for scholarships, equipment and laboratory facilities, faculty secondment and other components. Advance Agro Public Co. Ltd. funded the construction of the Advance Agro Pulp and Paper Technology Building.

URBAN ENVIRONMENTAL MANAGEMENT PROGRAM

The Urban Environmental Management Program in the School of Environment, Resources and Development seeks to equip environment managers with skills and capabilities that will enable them to develop sustainable urban spaces and communities, while enhancing the economy and preserving the natural environment.

STUDENTS

APPLICATION AND ENROLMENT TRENDS

Applications for admission to the academic programs reached a total of 3,453 for the 1997 academic year, rising by some 14.3% from the 1996 figure.

Applications Received in 1997

January	1194
May	805
September	1454
Total	3453

The economic crisis in Southeast Asia brought in its wake declining business and employment opportunities. A large number of applications is expected from young professionals who may opt to pursue further studies during this period. AIT study costs are affordable, compared with educational institutions in developed countries, and could attract a good number of student applicants.

Based on previous years' student numbers and taking into account the potential effects of the Asian crisis on student enrolment, it is projected that full fee-paying students in 1998-99 will average 1,339, surpassing by 42.4% the 940 projected in the Institute Strategic Plan.

The number of students admitted in the September 1997 term was 363, bringing the September 1997 term enrolment to a total of 1,320, compared with 1,261 for the same period in 1996.

The Diploma and Master's degree enrolments were 13 and 955, respectively. The Doctoral student enrolment was 202. Thirty-one students were enrolled in the certificate of advanced studies or CAS program, which is offered to students seeking admission

into the Doctoral program. The combined CAS and Doctoral enrolments accounted for 19.4% of the total enrolment, approaching very closely the 20% target set by the Board. It should be taken into account that many CAS students eventually qualify for admission into the Doctoral degree program.

Of the remaining 119 students, 41 were enrolled in special programs, and 78 in non-degree programs.



In line with its commitment to promote technological change and its management, AIT equips laboratories with up-to-date testing facilities and instrumentation to support student research and pilot projects in different areas of specialization.

Top photos show students at work in the new pulp and paper technology laboratory. Above, from left: scenes from the mechatronics laboratory and the environmental engineering laboratory.

1997 STUDENT ENROLMENT

by Program				
	Jan	May	Sept	Average
Doctoral	192	195	202	196
Master's	977	887	955	940
Diploma	13	13	13	13
Total degree enrolment	1182	1095	1170	1149
Other programs	76	97	150	108
Total	1258	1192	1320	1257
Doctoral enrolment (as a percentage of total enrolment)	16.2	17.8	17.2	17

Enrolment by Gender

Women students enrolled in the September 1997 term represented some 27.9% of the total enrolment, representing a slight increase from last year's figure of 27.6%. Women accounted for over 40% of the enrolment in the following programs: Computer Science and Information Management, Bioprocess Technology, Human Settlements Development, and Management of Technology.

1997 Women Enrolment (as a percentage of total enrolment)				
School	Jan	May	Sept	Average
SAT	22.2	26.2	26.6	25.7
SCE	11.9	10.7	12.3	11.6
SERD	36.8	35.5	34.0	35.6
SOM	35.1	32.0	37.4	35.2

Abbreviations are listed on page 48.

SCHOLARSHIP DISTRIBUTION

A noticeable reduction in AIT-proposed scholarships was again observed in 1997, alongside increases in the number of self-supporting students, partial scholarship holders, and students supported by external donors.

The distribution of scholarships in the September 1997 term showed 280 AIT-proposed scholarships, 382 internal donor-nominated scholarships, and 148 students on external scholarships. There were 118 self-supporting students and 144 students on partial scholarships. These figures

brought the total number of full-fee paying students to 1,072 out of a total enrolment of 1,320.

Of the 1,320 enrollees, 248 were not fee-paying (168 were on waivers, while 80 were on partial scholarships and no longer paying fees).

by Country			
	Jan	May	Sept
Azerbaijan	1	1	2
Bangladesh	68	59	62
Belgium	2	2	4
Bhutan	7	5	1
Cambodia	43	44	62
Chinese Taipei	28	17	26
Finland	1	2	3
France	1		5
Germany	2		2
Iceland	1		
India	52	62	59
Indonesia	55	51	45
Iran	4	4	4
Japan	7	7	10
Kazakhstan	4	5	7
Kenya	2	1	1
Korea	9	9	9
Kyrgyzstan	1	2	2
Laos	23	24	29
Malaysia	7	6	7
Mongolia	11	13	12
Myanmar	49	50	52
Nepal	129	119	109
Norway	1		4
Pakistan	37	34	36
Papua New Guinea	1	1	1
PRC	95	86	90
Philippines	49	44	47
Solomon Islands		1	1
Sri Lanka	57	54	50
Switzerland	2	2	2
Thailand	375	369	446
USA	1	1	2
Uzbekistan	1	1	1
Vietnam	130	115	127
Yemen	1		
Zambia	1	1	
Total	1258	1192	1320

by School			
	Jan	May	Sept
<i>Advanced Technologies (SAT)</i>			
CSIM	73	127	130
ISE	70	116	116
TC	50	76	76
<i>Civil Engineering (SCE)</i>			
GE	60	29	59
IPM	22	13	16
SEC	112	72	137
TE	21	13	26
WEM	67	48	69
<i>Environment, Resources and Development (SERD)</i>			
AFE	57	55	38
AAS	73	77	61
EPT	46	45	28
Energy	93	93	67
EE	111	112	75
HSD	98	99	76
STAR	83	84	59
UEM			16
<i>Management (SOM)</i>			
IB	141	85	165
MT	81	48	79
EMBA			27
Total	1258	1192	1320

Excluding post doctoral fellows, research fellows, Programs in Computer Applications Development (PCAD) trainees, TALKBASE students.

Abbreviations are listed on page 48.

GRADUATES

1997 GRADUATE RECORD

by Degree				
	Apr	Aug	Dec	Total
D.Eng.	7	3	4	14
D.Tech. Sc.	5	5	7	17
Ph.D.	1	1	2	4
M.Eng.	109	87	115	311
M.Sc.	8	119	22	149
MBA	97	1	5	103
Dip.AIT	8		13	21
Total	235	216	168	619

by Country				
	Apr	Aug	Dec	Total
Bangladesh	15	8	8	31
Bhutan	2	3		5
Cambodia	1	15	2	18
Chinese Taipei	14		4	18
India	3	13	8	24
Indonesia	8	9	10	27
Japan	1			1
Kazakhstan			3	3
Kenya	1		1	2
Korea	1	2		3
Laos		10		10
Malaysia	1		1	2
Mongolia	1	2	2	5
Myanmar	8	11	8	27
Nepal	18	26	22	66
Pakistan	9	6	5	20
Papua New Guinea			1	1
PRC	22	20	10	52
Philippines	8	7	6	21
Sri Lanka	7	16	6	29
Thailand	70	44	48	162
Vietnam	45	22	23	90
Zambia		1		1
Total	235	216	168	619

by Program				
	Apr	Aug	Dec	Total
<i>School of Advanced Technologies</i>				
CSIM	5	2	37	44
ISE	9	3	59	71
TC	2		35	37
<i>School of Civil Engineering</i>				
GE	33	1	1	35
IPM	11			11
SEC	40			40
TE	11			11
WEM	21	2	2	25
<i>School of Environment, Resources and Development</i>				
AAS	1	27	3	31
AFE	3	20	3	26
BPT		16	1	17
Energy		37	1	38
EE		49	15	64
HSD	1	28	1	30
STAR	1	29	4	34
<i>School of Management</i>				
	97	2	6	105
Total	235	216	168	619

Abbreviations are listed on page 48.

1997 GRADUATION SPEAKERS

79th Graduation
18 April

Mr. Hubert Flahault,
President of the Paris
Chamber of Commerce
and Industry



80th Graduation
15 August

Dr. Alastair North, former AIT
President, was presented the
Honorary Degree of Doctor of
Technology for his outstanding
leadership of the Institute and his
contribution to educational and
professional development in the
region.



81st Graduation
18 December

Mr. Haymo Krusch,
AIT Trustee and
President of Siemens
Thailand Ltd.



GRADUATION AWARDEES

April

Mr. Mahesh Raj Gautam
(SCE, WEM) Nepal
Sukum Navapan Prize

Mr. Tennakoon M. N. Wijyaratna
(SCE, WEM) Sri Lanka
Hodaka Prize

Mr. Rajesh Prasad Dhakal
(SCE, SEC) Nepal
Aoyagi Prize

Mr. Wirat Ratanawetchasit
(SCE, SEC) Thailand
Aoyagi Prize

Mr. Danai Ruengporn
(SCE, TE) Thailand
Barbara and John Hugh Jones Prize

Mr. Pipat Laowattanabandit
(SCE, GE) Thailand
Deeswasmongkol Prize

Mr. Tara Nidhi Lohani
(SCE, GE) Nepal
Chin Fung Kee Prize

Mr. Li Jun
(SCE, IPM)
People's Republic of China
Hisamatsu Prize

Ms. Do Thi Xuan Lan
(SCE, SEC) Vietnam
*Mahesh Varma Prize and
Hiromichi Seya Prize*

Ms. Luc Thi Thu Huong
(SOM, IB) Vietnam
Wilhelm Hill Prize

Mr. Pramuan Bunkanwinicha
(SOM, IB) Thailand
James A. Linen III Memorial Prize

Mr. Shantanu Dutta
(SOM, MT) Bangladesh
Haider Razvi Prize

August

Ms. May Ann E. Mamicpic
(SERD, AAS) Philippines
Alastair M. North Prize

Ms. P. K. Balasankari
(SERD, AFE) India
*Y.Y. Kishida Prize and
Yoh Kurozawa Prize*

Mr. Samiapillai Maxwell
(SERD, BPT) Sri Lanka
Albert Stevens Prize

Ms. N.D.K. Dayawansa
(SERD, STAR) Sri Lanka
*Tim Kendall Memorial Prize
and Yoh Kurosawa Prize*

Ms. Jiang Yan
(SERD, Energy)
People's Republic of China
James A. Linen III Memorial Prize

Mr. Yan Lin
(SERD, Energy) Myanmar
James A. Linen III Memorial Prize

Mr. Widanage Rupananda
(SERD, HSD) Sri Lanka
Sukum Navapan Prize

Mr. Amit Bhargava
(SERD, EE) India
Robert B. Banks Prize

*N.B. The entries in parentheses
indicate the graduates' respective
Schools and Programs. Background
information on graduation award
sponsors is provided on page 46 of the
Appendix.*

December

Mr. Md. Khairul Hasan
(SAT, TC) Bangladesh
Telecom-Finland Prize

Ms. Chiratana Pringruksa
(SAT, ISE) Thailand
Shoichiro Toyoda Prize

Mr. V. C. Sarvananthan
(SAT, ISE) Sri Lanka
James A. Linen III Memorial Prize

Mr. Saibal Ray
(SAT, ISE) India
Tim Kendall Memorial Prize

Mr. Chen Lei
(SAT, CSIM)
People's Republic of China
Hisamatsu Prize

Mr. Ronnachai Lorjaroenmongkol
(SAT, CSIM) Thailand
Hisamatsu Prize



ALUMNI

In addition to the professional benefits offered by their advanced technology education and training, AIT graduates are enriched by the experience of living and working in a multicultural environment. The professional friendships and contacts established during their time at AIT are sustained throughout their subsequent careers. Regional camaraderie and international harmony are further fostered by the AIT Alumni Association and its 22 national chapters.

TRUSTEESHIPS FOR AIT ALUMNI



Dr. Cal



Dr. Somchet



Mr. Tseng



Mr. Shrestha

The election of Dr. Primitivo Cal (GTE '70), Dr. Somchet Thinaphong (WRE '80) and Mr. Yen-Yi Tseng (CRD '73) to Trusteeships brought the number of alumni representatives on the AIT Board of Trustees to four. They join Mr. Surendra Shrestha (CS '80), who has been a Trustee since his election as President of the AIT Alumni Association in 1996.

Dr. Cal is Undersecretary of the Department of Transportation and Communications of the Philippines and incumbent President of AITAA-Philippines.

Dr. Somchet is Governor of the Industrial Estate Authority of Thailand and incumbent President of AITAA-Thailand.

Mr. Tseng is President of Ret-Ser Engineering Agency and former President of AITAA-Chinese Taipei.



The five largest groups of AIT alumni are from

Thailand	2011
Chinese Taipei	795
Philippines	765
Sri Lanka	595
India	580

ALUMNI DISTRIBUTION

by School

Advanced Technologies	1590
Civil Engineering	3263
Environment, Resources and Development	3360
Management	454

Total 8667

by Degree

D. Eng.	197
D. Tech. Sc.	61
Ph.D.	27
M. Eng.	5598
M. Sc.	2113
MBA	449
Diploma	222

Total 8667

AIT ALUMNI ASSOCIATION

Support to AIT

In addition to the AITAA-assisted fund-raising campaign reported on page 3, individual contributions were presented by Thai alumni namely, Dr. Subin Pinkayan (SEC '61), Mr. Chainarong na Lamphun (WRE '80), Dr. Niyom Deeswasmongkol (GTE '76), and Dr. Kowit Krachang (HSD '96).

The alumni-assisted fund-raising campaign, spearheaded by AITAA, covers grants for scholarships, sponsored research, and training.

Members of the alumni body also provide significant inputs to academic planning exercises, helping to ensure the relevance and excellence of AIT's program offerings.

AITAA International Consortium

The AITANET, a consortium of engineering consultancy firms owned and/or managed by AIT alumni, will be established in 1998. The AITANET core group is composed of AITAA members from Malaysia, Philippines, Chinese Taipei and Thailand. The consortium hopes to secure a substantial share of consultancy projects in the 21st century, particularly those supported by international financing. It will be registered as a limited company in Hong Kong with an estimated initial capital of US\$ 1 million. A liaison office at AIT is proposed.

26th Governing Board Meeting

The 26th AITAA Governing Board Meeting, held from 9-11 April 1997 in Genting Highlands, Malaysia, was attended by some 50 delegates from 18 AITAA national chapters. The 26th GBM re-elected the incumbent AITAA President and Executive Secretary to another term until 1999.

AITAA

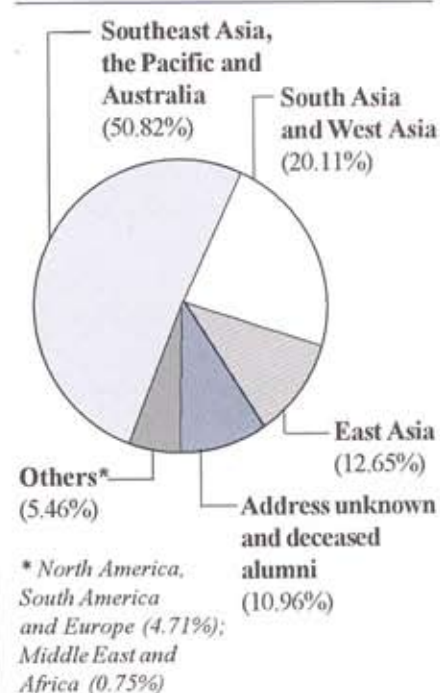
Honorary Memberships

The AITAA awarded honorary memberships to Prof. Karl E. Weber, AIT Vice President for Academic Affairs, and Mr. John A. Brubaker, AIT Alumni Affairs Coordinator from 1989 to 1992.

by Nationality

Southeast Asia and the Pacific (49.48%)		South Asia and West Asia (33.07%)		North America, Europe and Africa (0.62%)	
Brunei	10	Afghanistan	19	Belgium	1
Cambodia	49	Bangladesh	579	Bolivia	1
Fiji	1	Bhutan	13	Canada	5
Indonesia	434	India	580	Egypt	1
Laos	34	Iran	12	Ethiopia	1
Malaysia	275	Nepal	498	Finland	2
Maldives	3	Pakistan	564	France	4
Myanmar	175	Sri Lanka	595	Germany	2
Papua New Guinea	9	Turkey	6	Ghana	2
Philippines	765	<i>Sub-total</i>	2866	Honduras	1
Singapore	28	East Asia (16.83%)		Kenya	4
Thailand	2011	Hong Kong	87	Malawi	3
Tonga	1	Japan	55	Netherlands	2
Vietnam	493	Kazakhstan	5	Nigeria	1
<i>Sub-total</i>	4288	Republic of Korea	117	Sweden	2
		Macau	7	Tanzania	8
		Mongolia	10	UK	2
		PRC	383	USA	11
		Chinese Taipei	795	Zambia	1
		<i>Sub-total</i>	1459	<i>Sub-total</i>	54
		Total		Total	8667

by Residence



FACULTY

ACADEMIC QUALITY

There are many criteria by which the academic quality of an educational institution may be assessed and debates surrounding university ratings in many countries demonstrate the uncertainty and imprecision of any set of determinants. By most recognized criteria, the academic quality of AIT is eminently acceptable. AIT faculty are recipients of prestigious awards and invitations to serve on distinguished national and international bodies. The admission standards for students are generally high and, upon graduation, AIT graduates are in great demand by prospective employers. Many of them readily gain admission into respected international graduate schools.

Nevertheless, AIT recognizes the need for increased effort and investment to further ensure the quality of both faculty and students. The revitalized Educational Development Working Group, in collaboration with the Center for Language and Educational Technology, is coordinating the academic quality audit process, promoting best teaching practices among faculty, diversifying teaching and learning methods and techniques, and proposing improvements in the use of the English language for academic writing and oral communication.

1997 PROFESSORIAL LECTURES



In July, Her Royal Highness Princess Maha Chakri Sirindhorn graciously presided over the professorial lecture of Prof. Robert D. Stueart, who spoke on *"The Virtual Library and the Future of Scholarly Communications."* Prof. Stueart is former Executive Director of the Center for Library and Information Resources and a faculty member of the Computer Science and Information Management Program, School of Advanced Technologies.



Prof. Murty

Prof. V.V.N. Murty, a faculty member of the School of Environment, Resources and Development, delivered his professorial lecture entitled, *"Perspectives in Land and Water Development in an Asian Context,"* in January.



Prof. Chongrak

In September, Prof. Chongrak Polprasert, Dean of the School of Environment, Resources and Development, delivered his professorial lecture entitled, *"Natural Systems for Pollution Control and Waste Recycling"*.

STUDENT-TO-FACULTY RATIO

The total student enrolment and full-time faculty equivalent in the September 1997 term yielded an overall student-to-faculty ratio of 9:99. This value compared well with the optimum ratio of 9:1 set by the Board of Trustees.

1997 Student-to-Faculty Ratio

School	Jan	May	Sept	Average
Advanced Technologies	6.87	12.84	12.17	10.17
Civil Engineering	9.51	5.81	10.79	8.74
Environment, Resources and Development	9.30	9.05	6.73	8.22
Management	14.73	9.65	18.26	13.94
All Schools	9.45	9.41	9.99	9.37

ACADEMIC ACTIVITIES

The 1997 report on academic activities demonstrates the importance given by AIT faculty to publishing, research and outreach activities. In 1997 the AIT faculty were engaged in 683 publishing activities, 229 research projects, and 248 outreach programs.

1997 Faculty Headcount

	Jan	May	Sept	Average
Full-time	138.32	136.32	133.82	136.15
Direct-hire	(97.49)	(95.49)	(89.99)	
Seconded	(40.83)	(40.83)	(43.83)	
Short-term Visiting	10	10	14	11.33
Associated	23	27	31	27
Affiliated	9	9	11	9.66
Adjunct	8	6	6	6.66
Total	188.32	188.32	195.82	190.80

1997 Report on Academic Activities

	SAT	SCE	SERD	SOM	AITCV	CEC	CLAIR	CLET	RCC	Total
Publications										
Journal Papers	42	40	87	24			2	8		203
Conference Paper/Proceedings	54	57	113	30			4	18		276
Research Reports		9	52	1				5		67
Books/Chapters in Books	4	4	22	23				5		58
Others*	9	10	37	2			17	4		79
<i>Sub-Total</i>	109	120	311	80			23	40		683
Sponsored and Grant Research										
Completed Projects	6	27	23	11	1		1		1	70
On-going Projects	13	27	98	10			8		3	159
<i>Sub-Total</i>	19	54	121	21	1		9		4	229
Continuing Education Activities										
Conferences	2		3	3				2		10
Workshops	4	2	9				1	7		23
Seminars	7		21	19	1		1			49
Short Courses			1		25					26
Special Lectures			1					6		7
Others**	10	2	37	1	26	44	12	1		133
<i>Sub-Total</i>	23	4	72	23	52	44	14	16		248

* Monographs, Working Papers, Consultancy Reports, Reviews, Academic Unit Research Reports, Occasional Papers, Newsletters, Reference Materials, Handbooks, Lecture Notes, Serial Publications, Databases, Technical Notes, etc.

** Retreats, Training Projects, etc.
Abbreviations are listed on page 48.

RESEARCH

Sponsored research is vital to the Institute's mission. Major developments leading to the further expansion of research activities are summarized in this section.

In 1997 the Thailand Research Fund made its first-ever grant to AIT, amounting to Baht 2 million, to support a three-year research on the foundations of deductive object-oriented database system.

The Appendix provides a list of on-going sponsored and contract research and research projects signed in 1997.

REVENUE SUMMARY OF RESEARCH PROJECTS FY 1992-93 to FY 1996-97 (Baht '000)

Year	Schools	Centers	Total
1996-1997	141,158	26,529	167,687
1995-1996	104,647	24,689	129,336
1994-1995	112,617	67,413	180,030
1993-1994	66,484	22,879	89,363
1992-1993	60,209	18,965	79,174

COLLABORATIVE RESEARCH

Research facilities and expertise are available for contractual or collaborative research arrangements with clients from the public and private sectors. Many of the Institute's fully-equipped research centers and laboratories provide special services, including standard commercial test certification of new products, field site investigations,

instrumentation and measurement.

Their fluency in local languages and awareness of cultural sensitivities make AIT research personnel ideal for studies that focus on new business opportunities and the penetration of new markets.

Below are examples of collaborative research undertaken by AIT faculty and staff.

■ Satellite connectivity

AIT's new satellite ground station is now linked with the information infrastructure network of the Asian Internet Interconnection Initiatives (AI³) Project, thus allowing the expansion of academic and research activities on the Internet. A satellite has been made available by the Japan Satellite Systems, Inc. (JCSAT) for this purpose. The JCSAT and AI³ Project seek to develop an international information infrastructure in Asian countries by improving intra-Asia Internet connectivity and the Asia-Pacific Information Infrastructure.

The newly acquired satellite connectivity is a useful facility for the Internetworking Research Laboratory (IRL), established within the Computer Science and Information Management Program. The IRL supports research, training and consultancy services related to the advancement of Internet technology.

■ Flood management of Chao Phraya river basin

Findings from this 1.7 million Baht study will be used in identifying high priority flood management projects and designing a conceptual program for basin-wide flood management. The study, a part of the Chao Phraya Water Resources Management Strategy funded by the Japanese Government and administered by the World Bank, is jointly carried out by AIT's Water Engineering and Management Program and the Danish Hydraulic Institute.

■ Septage treatment

Signed in July 1997 with the Swiss Federal Institute for Environmental Science and Technology in Duebendorf, Switzerland, this collaborative research in low cost sanitation technologies seeks to create and disseminate design and operational guidelines for sustainable faecal sludge treatment options, based on field evaluations of promising treatment options in pilot and full-scale treatment works.



ASIAN CENTER FOR RESEARCH ON REMOTE SENSING

The Asian Center for Research on Remote Sensing (ACRoRS) plays a key role in research collaborations, two of which are Japanese institution-based, namely the University of Tokyo's Global Energy and Water Cycle Experiment Project and Keio University's Heat Island Project.

ACRoRS works closely with the National Space Development Agency of Japan and the National Research Council of Thailand.



Top and above: A major facility at ACRoRS is a NOAA receiving station, which covers a major part of the Asia-Pacific region eight to nine times daily. Data received from the NOAA satellite are shared with researchers from different countries in the region.



ADVANCED TECHNOLOGY FORUM

The Advanced Technology Forum (ATF) is a natural expansion of collaboration between the School of Advanced Technologies and the private sector. It was officially opened in December 1997. Ten leading business companies have partnered the School as ATF founding members.

By providing technical support to all member companies and encouraging the exchange of latest technical information between them and the School, the ATF will be particularly useful for companies that utilize latest industrial systems and information technologies in the delivery of customized goods and services.

The ATF founding members are Advanced Info Service Plc., Alcatel (Thailand) Co. Ltd., Ericsson (Thailand) Ltd., Nokia Telecommunications (Thailand) Ltd., Read-Rite (Thailand) Co. Ltd., Smart Corp., Seagate Technology (Thailand) Ltd., Siam Cement, Siemens Ltd., and Unocal Thailand Ltd.



Above left: The environmental engineering laboratory has a wide inventory of advanced instruments used in the analysis of water and wastewater.

Above right: Septage (faecal sludge) from Bangkok is transferred and fed into a vertical-flow constructed wetland unit at the environmental research station.

Far left: Stocking fish fingerlings in a rice field in Lao PDR.

Left: A student gathers data for complex research in geotechnical engineering.

UNDER DEVELOPMENT

The proposed establishment of the Center for Information Technology for Sustainable Settlements Development is expected to promote HSD research and outreach activities in Cambodia, Laos and Vietnam.

Under study are a proposed collaboration between the Bioprocess Technology Program and French industry in the field of genetic engineering, and the provision at AIT of a base for the Southeast Asia

operations of the International Center for Research in Developing Countries (CIRAD).

A transportation research center is being proposed in the School of Civil Engineering.

OUTREACH

AIT operates a large outreach program which includes short courses workshops, seminars and conferences.

Outreach activities can take the form of executive training courses which are a valuable resource for organizations committed to the continual improvement and career development of employees. They can also serve as familiarization and marketing tools to introduce and show case specific technologies and products to decision-makers and potential buyers.

AIT's outreach staff are experienced in customizing training courses to suit market demands and clients' specifications.

RURAL AND URBAN DEVELOPMENT OUTREACH

In October 1997, AIT signed a three-year agreement with the United Nations Capital Development Fund (UNCDF) to strengthen collaboration in decentralization and rural development. A team from the Human Settlements Development Program is providing technical backstopping and monitoring to UNCDF activities in Cambodia, Vietnam and Bhutan. A pilot program will be launched soon in Nepal.

Based on an agreement signed in 1997, the Regional Office of the United Nations Urban Management Program (UMP-Asia) will relocate from Kuala Lumpur to AIT in January 1998. Launched in 1986, the UMP is focused on urban poverty eradication, urban environmental management and participatory urban governance. UMP-Asia will work closely with the HSD Program. UMP-Asia carries out activities in Tianjin, China; Bangalore and Surat, India; Palembang and Semarang, Indonesia; Bangkok and Phuket, Thailand; and Hanoi and Ho Chi Minh City, Vietnam.

REVENUE SUMMARY OF OUTREACH ACTIVITIES FY 1992-93 to FY 1996-97 (Baht '000)

SCHOOLS					
Year	Short Course	Seminar	Conference	Symposium	Training
1996-1997		3,135	3,444	134	9,627
1995-1996		5,065	845		9,335
1994-1995	50	3,687	1,154	1,385	16,530
1993-1994	1,009	5,532	3,009	876	12,589
1992-1993	184	3,738	3,435	44	9,607

CENTERS					
Year	Short Course	Seminar	Conference	Symposium	Training
1996-1997	10,606	23,170	35,945		3,152
1995-1996	33,101	2,665	1,965		3,285
1994-1995	28,445	13,547			4,681
1993-1994		6,164	478	294	7,871
1992-1993	9,267	7,089	443		51,849

DISTRIBUTED EDUCATION

The Institute's commitment to develop distributed education was further strengthened in 1997 with the installation of a satellite station on campus, complemented by the introduction of a capability in Internet-based course delivery. AIT seeks to play dual roles in distributed education: as distributor and as recipient.

The implementation of proposed distributed education activities in 1998 has been placed under the responsibility of the Distance Education Task Force

and its proposed working group on academic administration, working in collaboration with the Educational Development Working Group. The proposed courses include one in robotics or product design for remote delivery to AITCV in Hanoi, an on-campus course in information management that will supplement classroom activities with Web-based teaching and learning, and an aquaculture training program in Laos that will utilize CD-ROM technology.

The laying of fiber optic connections for the campus network is expected to be completed next year.



Left: HSD faculty on a field visit to a target village under the UNCDF program.

Through outreach activities, the Schools and Centers help to ensure the continued career development of professionals in employment. The following listing is illustrative of the Institute's 1997 portfolio of outreach activities.

School of Environment, Resources and Development

Gender Studies Curriculum Development
Solar Refrigerator Repair and Maintenance
Aquatic Farm Management
PC-Based Geographic Information Systems
Energy Environmental Modeling
Wood Energy Planning
Hatchery Techniques
Maintenance Management and Condition
Monitoring of Power Systems
Power System Dynamics,
Control and Operation
Maintenance/Management of Electric
Power Utilities
Pond Water Quality Management for
Commercial Fish and
Shrimp Production
Catfish Production Strategies:
the Thai Experience
Theory and Application of Solar
and Biomass Energy
Shrimp Industry in Thailand and its
Environmental Impacts
Nile Tilapia: Techniques for Mass Fry
Production and Grow-out

School of Civil Engineering

Environmental Impact Assessment
Drainage and Sewerage Engineering
Computer-Aided Analysis and
Design of Structures

Center for Library and Information Resources

Information Repackaging and
Consolidation
Resources Discovery on the Internet
CDS/ISIS for Beginners
Mini-Micro CDS/ISIS for
Advanced Users
Emerging Technologies for Automated
Information Services and
Management
Building a Web Site

School of Management (Management of Technology Information Center)

Technological Leadership
Innovations in Corporate Financing
Total Quality Management
Project Management
Business to Business Marketing
Corporate Strategy
Marketing Management
Human Resource Management
Project Management
How to Profit from Product and
Process Innovation

School of Advanced Technologies (Skills Center)

Reverse Engineering
Telecommunications
Database Design and Management
CAD/CAM/Computer Numerical Control
Automation and PLC Programming
CNC/CAM (3 axis milling and turning)
Multi-Criteria Decision-Making Approach
for Industrial Managers
Manufacturing Resource Planning
Applications in Industries

Regional Computer Center

IT Management and Applications
Development in a
LAN Environment
Computer Applications Development
- Tools and Techniques
Computer-Aided Financial Management
Data Communication and Computer
Networking
Repair and Maintenance of
Micro-Computers
Information Systems Analysis using
CASE Tools
Unix Fundamental and Administration
Management of Information Technology
Database Design and Applications
Development in a LAN
Environment using FoxPro

Continuing Education Center

Industrial Production Management
HRD Skills for Functional Managers
International Marketing Management
Strategic Extension Campaign Development
Information Technology and Management
Industrial Ergonomics
Tourism Development and Management
Rural Poverty Alleviation
Human Resource Management
Urban Poverty Alleviation and Management
Project Management
Integrated Watershed Management
Industrial Wastes Audit and Reduction
Integrated Solid Waste Management
Management of Training Centers
Project Monitoring and Evaluation
Environmental Planning and Management
Planning for Integrated Area Development
Biodiversity Conservation
Just-In-Time Manufacturing
Assessment
Environmental Risk Assessment
Advanced Management Program for
Asia-Pacific Managers
Horticultural Crop Production
and Marketing
Livestock Production and
Extension Techniques
Computerized Database Security
and Integrity
Tissue Culture Technology for
Commercial Applications
Environmental Impact Assessment
and Review
Development and Production
of Training Materials
Quality Management in the
Food Industry
Development and Production of
Computer-Assisted Instruction
Rural Development Planning
and Mobilization
Industrial Infrastructure Development
and Management
Agribusiness Development, Management
and Extension Techniques

Asian Disaster Preparedness Center

Health Emergencies in Large Populations
Disaster Management
Training of Trainers in Disaster
Management
Urban Disaster Mitigation

RESOURCES AND ADMINISTRATION

RESOURCE GENERATION

OVERVIEW

The far-reaching effects of Asia's economic downturn on the Institute's present and future well-being are further compounded by the withdrawal of support from some traditional donor governments. Direct collaboration with the Belgian Government, which began in the early 1970's, ended in December 1997. The UK-ODA support to the AFE and Aquaculture Programs was phased out in line with the UK Government's goal of ensuring the programs' sustainability without ODA funding. Germany will phase out support within four to six years. Funds to be allocated for the next phase of its collaboration with AIT will not exceed the present budget. As part of its austerity measures, the Thai Government cancelled AIT's duty free privilege for alcoholic drinks and household goods starting in October 1997.

Overall, the prevailing situation warrants prudence in the utilization of Institute resources and points to a crucial need for intensified efforts to establish new partnerships to support the Institute's activities and, to identify new markets for its academic, research and outreach offerings. Proposals for continued collaboration are also under consideration by eight donor governments.

AIT's on-going MOUs are being implemented in accordance with the provisions of the individual agreements. These on-going MOUs are with Canada (1997-2000), Denmark (1994-1999), Finland (1996-1999), Germany (1995-1997), Japan (FY 1996-97 and FY 1997-98), Netherlands (1994-1998), Norway (1995-1998), Switzerland (1996-1999), and Thailand (1997-2001)

ACHIEVEMENTS

Fifteen donor governments renewed their cooperation programs in 1997. The largest was Sweden's extension, which was signed in February for the period July 1996-December 1999. Phase II of the Sida-AIT Development Cooperation Program (value: US\$ 5,037,500) provides support for 90 Master's scholarships, the Aquaculture Program, EPSM faculty and project operations, and program administration. Phase I ended in June 1996.

The second largest renewal was with Thailand (US\$4,386,060), followed by Canada (US\$4,014,597), and Japan (US\$3,058,600).

For the most part, private sector support in 1997 came from the telecommunications sector, including Nokia Telecommunications (Thailand), Jasmine International, Telecom Asia, and other Thai companies. Support was also provided by Nortel (Canada), Telecom Finland and Siemens AG Germany.

Institutional collaborations were signed with the Indian Institute of Technology, New Delhi, *Ecole Supérieur de Commerce de Nantes Atlantique*, and Hannam University in the Republic of Korea.

In Thailand, AIT is poised to play a greater role in national development following the signing in December 1997 of memoranda of understanding with the National Science and Technology Development Agency, to strengthen and promote cooperation in knowledge-intensive, high technology areas.

Collaborations Renewed in FY 1996-97

Donors	Types of Support Provided				
	Scholarships	Operating Grant	Faculty Support	Equipment Grant	Others*
Governments					
Austria	•				
Canada	•			•	•
Chinese Taipei	•				
Finland	•				
France	•	•			
Germany	•				
India			•		•
Japan	•	•	•	•	•
RoK			•		
New Zealand	•				
Norway	•				
Pakistan					•
Sweden	•		•	•	•
Switzerland	•	•	•		
Thailand	•	•		•	•
Private Sector					
Canada	•	•			
Finland	•				
Germany	•				
Thailand	•			•	•
Foundations					
Japan	•				
USA	•		•		
National Government Agencies					
Thailand	•	•	•		•
Educational Institutions					
Italy					•
Thailand	•				•
International Organizations					
EC	•				

* Including a wide range of cash and in-kind support, such as exchange programs, grants-in-aid, etc.

PROSPECTS

Eight major proposals were submitted in 1997. The three largest were those submitted to Japan (US\$5,065,960), the Netherlands (US\$4,190,540.35), and the People's Republic of China (US\$806,400). Proposals were also submitted to Italy, France, Philippines, Spain, Switzerland, and Thailand.

In Thailand, partnership renewals with the Communications Authority of Thailand, the Telephone Organization of Thailand, and the Royal Thai Navy are under consideration.

Proposals Submitted in FY 1996-97

Donors	Types of Support Requested				
	Scholarships	Operating Grant	Faculty Support	Equipment Grant	Others*
Governments					
India			•		•
Japan	•	•	•	•	•
Netherlands	•	•	•	•	•
New Zealand		•			
Pakistan					•
PRC	•		•		
Philippines		•			
UK	•				
National Government Agencies					
Thailand	•				
Educational Institutions					
Indonesia	•				
Foundations					
Japan	•				
Private Sector					
Japan	•				
Thailand	•				•
International Organizations					
EC	•				

RESOURCES AND ADMINISTRATION

SUMMARY OF CONTRIBUTIONS (CASH AND KIND) FY 1996-97

GOVERNMENTS		NATIONAL GOVERNMENT AGENCIES		Remote Sensing Technology Center of Japan	1.17	
Australia	1.34	<i>Australia</i>	McQuarie University	0.02	University of Tokyo	0.11
Austria	1.75		Metropolitan Fire Brigades Board	0.01	<i>Korea</i>	
Brunei	0.16	<i>Austria</i>			Korea Inst. of Science and Technology	0.01
Canada	0.08		International Atomic Energy Agency	0.01	Ministry of Government Administration	0.01
People's Republic of China	0.97	<i>Bangladesh</i>			<i>Laos</i>	
Chinese Taipei	1.65		Academy for Planning and Development	0.01	Enterprise Telecommunications	0.02
Finland	2.05		Industrial Development Board	0.01	<i>Malaysia</i>	
India	0.17		Integrated Food Assistance Dev. Proj.	0.11	Department of Civil Defense	0.03
Japan	8.70		Int'l Center for Diarrhoeal Disease Research	0.02	Information Department	0.02
Republic of Korea	0.22		National Board of Revenue	0.03	Ministry of Agriculture and Forestry	0.04
New Zealand	0.32		Rangpur Dinajpur Rural Services	0.01	Ministry of Education	0.89
Norway	2.87	<i>Belgium</i>			MUDA Agricultural Development Authority	0.01
Sri Lanka	0.38		CRED	0.01	Sarawak Housing and Development Commission	0.03
Sweden	5.47	<i>Bhutan</i>			<i>Nepal</i>	
Switzerland	3.79		Education Division	0.05	Basic and Primary Education Program	0.09
Thailand	13.43		Independent University	0.05	Department of Mines and Geology	0.01
United States of America	1.88		Ministry of Agriculture	0.05	Ministry of Education	0.50
European Community			Ministry of Health and Education	0.32	Nepal Telecommunications Corporation	0.01
CEC	3.52		National Budget & Aid Coordination Division	0.10	Tribhuvan University	0.05
Belgium	2.28		Royal Civil Services Commission	0.11	<i>Netherlands</i>	
Denmark	5.77		Tourism Authority of Bhutan	0.01	Consultants for Management of Development Programs	0.02
France	3.36	<i>Cambodia</i>			Institute of Social Studies	0.16
Germany	6.69		Ministry of Economics and Finance	0.06	ITC/WTUSM	0.01
Netherlands	1.78	<i>Canada</i>			<i>Norway</i>	
United Kingdom	4.51		IDRC	0.02	Norwegian School of Management	0.02
			CUC	0.03	<i>Pakistan</i>	
<i>Sub-total</i>	73.14		University of British Columbia	0.01	Aga Khan Rural Support Project	0.02
INTERNATIONAL ORGANIZATIONS		<i>Denmark</i>			Ministry of Education	0.01
ADB	1.83		Danish Hydraulic Institute	0.19	Planning and Development Department	0.03
ASEAN-HRD Networks Project	0.05		Danish Technical University	0.01	Punjab College of Business Administration	0.04
CIP	0.01	<i>Finland</i>			<i>Papua New Guinea</i>	
Commonwealth Secretariat	0.07		Helsinki School of Economics and Business Administration	0.03	PNG Electricity Authority	0.01
ESA	0.18	<i>France</i>			<i>Philippines</i>	
ESCAP	0.45		OECD	0.01	Department of Health	0.01
EU	0.07	<i>Germany</i>			Department of Science and Technology	0.02
FAO	0.23		KAAD	0.04	Fund for Assistance to Private Education	0.03
ILO	0.06		Technical University Munich	0.01	<i>Singapore</i>	
IUCN	0.45	<i>Ghana</i>			Housing and Development Board	0.01
Mekong River Commission	0.25		Ministry of Food and Agriculture	0.02	Ministry of Home Affairs	0.01
Rotary Foundation	0.02		Ministry of Mines and Energy	0.01	<i>Sri Lanka</i>	
UN	0.04		Social Security and National Insurance Trust	0.02	Department of Agriculture	0.05
UNDCP	0.02	<i>Hong Kong</i>			Ministry of Education and Higher Education	0.17
UNDHA	0.18		Civil Aid Services	0.01	Ministry of Planning Implementation	0.02
UNDP	0.64		Environmental Protection Department	0.01	Nat'l Water Supply and Drainage Board	0.01
UNEP-EAP/AP	1.91	<i>Indonesia</i>			Sri Lanka Customs	0.03
UNESCO	0.01		Bakornas - PB	0.01	Sri Lanka Energy Managers Association	0.01
UNHCR	0.01		Higher Education Project (ADB)	0.53	<i>Tanzania</i>	
UNICEF	0.02		Jakarta Capital City Administration	0.02	River Basin Management and Smallholder Irrigation Improvement Project	0.01
UNIDO	0.01		STMIX Budi Luhur	0.06	<i>Thailand</i>	
UN University	0.02		University Atma Jaya Yogyakarta	0.12	Airports Authority of Thailand	0.06
WHO	0.46		University of Jember	0.02	Bangkok Metropolitan Administration	0.04
World Bank	0.18		West Lumpung Emergency Reconstruction Project	0.05	Bank of Thailand	0.04
WWF	0.28	<i>Iran</i>			Chulalongkorn University	0.03
			Int'l Center for Agricultural Research in Dry Areas	0.11	Communications Authority of Thailand	0.30
<i>Sub-total</i>	7.45	<i>Japan</i>			Department of Industrial Promotion	0.02
			JIRCAS	0.01	Department of Mineral Resources	0.25
			NASDA	0.02		

DTEC	0.11	Consultants for Management of		Systems Dynamics Society	0.01
EGAT	0.71	Development Programs, Bv.	0.07	Tanakom Products Co. Ltd.	0.03
ETA	0.11	Diakonisches Werk Der Ekd	0.06	Team Consulting Engineering Co. Ltd.	0.02
Government Housing Bank	0.11	Direksi P. T. (Persero) Petabuhan	0.01	Telecom Asia Corp. Plc. Co. Ltd.	0.01
IPST	0.01	Du Pont Thailand Ltd.	0.01	Tetra Co. Ltd., Japan	0.06
Mahidol University	0.07	Eastern Power Development Co. Ltd.	0.04	Total E. P. Thailand	0.14
Metropolitan Waterworks Authority	0.14	Ecumenical Scholarship Program	0.04	Transfield Project (Malaysia) Sdn. Bhd.	0.03
Ministry of Agriculture and Cooperatives	0.04	Electricite de France	0.33	Ubol Sahatam Transport (1993) Co. Ltd.	0.03
Ministry of Finance	0.15	Educational Consultants Ltd., India	0.11	Union Shoes Co. Ltd.	0.01
Ministry of Industry	0.04	ERABA Corp., Japan	0.09	Uniscience Ltd., Finland	0.07
Ministry of Interior	0.22	Geotechnics Thailand Ltd.	0.03	United Communications Industry Plc. Co. Ltd.	0.08
Ministry of University Affairs	0.52	Ghana Cottons Co. Ltd.	0.02	Walchandugar Industries Co. Ltd., India	0.02
Nakhon Pathom Hospital	0.02	Golden Poultry International Co. Ltd.	0.03		
Naresuan University	0.10	Grand Engineering Consultant Co. Ltd.	0.02		
National Housing Authority	0.10	Hitachi Ltd.	0.02	AITAA-Thailand	0.02
Nat'l Inst. of Development Administration	0.07	Hongsa Laos Lignite Co. Ltd.	0.03	AIT Foundation Inc.	0.12
Nat'l Science & Technology Dev. Agency	0.03	Index International Group Co. Ltd.	0.06	A. Soriano Foundation, Philippines	0.07
Office of Agriculture Economics	0.07	Innovation Nakorn Luang Co. Ltd.	0.01	Assumption University, Thailand	0.04
Office of Atomic Energy for Peace	0.01	Intermediate Technology Development Group	0.04	Bangladesh Red Cross and Crescent	0.01
Petroleum Authority of Thailand	0.28	International Engineering Plc. Co. Ltd.	0.01	Board of Prospect, Burma	0.03
Public Works Department	0.56	Italian-Thai Development Plc. Co. Ltd.	0.01	British Red Cross Society	0.02
Rajamangala Institute of Technology	0.18	Jabatan Perotniam Sarawak	0.01	Care Bangladesh	0.15
Royal Thai Air Force	0.12	Jasmine Telecom. Systems Co. Ltd.	0.06	Care Indonesia	0.01
Royal Thai Navy	0.04	Keio University	0.03	C & C Education Foundation	0.01
Trad Province	0.02	Konica Co. Ltd.	0.01	Mr. Chainarong na Lamphun	0.01
Telephone Organization of Thailand	0.31	MDX Powers Co. Ltd.	0.01	Chulabhorn Research Institute, Thailand	0.03
Tourism Authority of Thailand	0.08	Marine Research Assessment Group	0.01	Deeswasmongkol Foundation, Thailand	0.01
United Kingdom		MI International	0.05	Education and Public Welfare Foundation	0.01
IACR-Rothamsted	0.03	Multiform Chemicals Ltd.	0.01	Ford Foundation	0.04
Regent College	0.01	Narai Technology Co. Ltd.	0.02	France Catholic Committee	0.02
UCLES	0.57	Nathan Association Inc.	0.06	Helvetas, Bhutan	0.02
United States of America		National Finance and Securities Plc. Co. Ltd.	0.01	Int'l Fed. of Library Associations and Institutes	0.03
University of Michigan	0.10	Nepal Telecom Corp.	0.01	Int'l Federation of the Red Cross, Bangladesh	0.03
University of Minnesota	0.02	New Bangkok International Airport Co. Ltd.	0.03	Int'l Federation of the Red Cross, Hanoi	0.05
Vietnam		NFFPA International	0.02	Int'l Federation of the Red Cross, Malaysia	0.02
Can Tho University	0.05	Nokia Telecommunications, Finland	0.24	John F. Kennedy Foundation	0.16
Ministry of Planning and Investment	0.01	Nokia Telecommunications (Thailand) Co. Ltd.	0.05	Laos-Swedish Forestry Program	0.04
Nat'l Inst. for Agricultural Planning and Projection	0.02	Nortel Technology, Canada	0.14	Liaison Office of Denmark-Bhutan	0.04
Vietsovpetro	0.01	Norton Networks Scholarship Co. Ltd.	0.01	Keidanren	0.39
Zambia		Nyllex (Malaysia) Bhd.	0.01	Konrad Adenauer Foundation	0.03
Ministry of Finance	0.04	Okuminisches Studien Werk, E.V.	0.11	Mahanakorn Univ. of Technology, Thailand	0.01
		OCAJI	0.02	Polytechnic Development Unit-Indo-German Cooperation Project	0.01
Sub-total	11.88	P. A. Consulting Group, New Zealand	0.10	Prasac-3 EC-Cambodia	0.04
		Paris Chamber of Commerce and Industry	0.18	Redd Barna, Nepal	0.01
BUSINESS, FOUNDATIONS, PRIVATE INDIVIDUALS AND OTHERS		P. T. Arun Ngl. Co.	0.01	Save the Children Fund	0.02
Abiko Research Laboratory, Japan	0.01	P. T. Finland Ltd.	0.13	Sripatham University, Thailand	0.03
Adidas Asia-Pacific	0.01	P. T. Internulti Planindo	0.07	Swiss Foundation for Technical Cooperation	0.01
Advance Info Service Plc. Co. Ltd.	0.03	P. T. Waskita Karya	0.01	Mr. Yoshiro Takasaki	1.38
AEDC Vietnam Ltd.	0.03	SEAFCO Co. Ltd.	0.01	Thai Tapioca Development Institute	0.28
Aeronautical Radio of Thailand Co. Ltd.	0.01	Shinawatra Computer and Communication Plc. Co. Ltd.	0.01	United Mission to Nepal	0.01
Asia Cement Plc. Co. Ltd.	0.01	Siam Agro Industry Pineapple and Others Plc. Co. Ltd.	0.02	Wat Pra Prathom Chedi	0.04
Asia Pacific Telecommunity	0.12	Siam Cement Co. Ltd.	0.15	Wat Yannasangwararam	0.14
B. B. Trading Sdn. Bhd., Malaysia	0.03	Siam Daysafe Co. Ltd.	0.01	World Vision International	0.04
Bank of Ayudhya Plc. Co. Ltd.	0.01	Siam Navaloha Laundry Co. Ltd.	0.02	World Wildlife Fund, USA	0.06
Bangkok Mass Transit System Plc. Co. Ltd.	0.01	Siam Yamato Steel Co. Ltd.	0.03	Others	0.18
Bangkok Rubber Plc. Co. Ltd.	0.02	Siemens Ltd.	0.05		
Burmese Border Consortium	0.01	Sitim MacDonald Ltd.	0.01	Sub-total	7.53
Carl Bro International A/S	0.08	Sogreah, France	0.01		
Charoen Polphand Feedmill Plc. Co. Ltd.	0.04	South East Asia Technology Co. Ltd.	0.01	TOTAL	100.00
Chemonics International Inc., USA	0.04	Stikom-Surabaya	0.02		
Chuo Mapping Co. Ltd., Japan	0.01	Stoneherge Design & Consultants Co. Ltd.	0.02		
CIRAD, France	0.04	Suphan Footwear Co. Ltd.	0.01		

**Total Contributions Received in
FY 1996-97: Baht 927,960,000.-**

CENTRAL ADMINISTRATION FUNCTIONS

■ INSTITUTIONAL REORGANIZATION

Three senior management positions namely, Associate Provost for Non-Academic Services, Institute Secretary, and Treasurer, were established in 1997 to pave the way for a more open and consultative administration that best serves the needs of AIT and embodies the principles of empowerment and delegation of responsibility.

Prof. Prinya Nutalaya, who is on leave from the Deanship of the School of Civil Engineering, assumed his appointment as Associate Provost for Non-Academic Services on a temporary basis on 28 July 1997. He is mandated to ensure effective and mutually supportive liaison between the academic community and those members of the community who

contribute to institutional goals through non-academic support services, and to recommend appropriate structural and organizational changes to enhance the quality of services provided.

As Institute Secretary, Dr. Roger Hawkey is responsible for evaluating and publishing all policies and procedures, providing support services to the new Institute committee structure, and serving as Secretary to the Board of Trustees. He is former Academic Secretary.

As Treasurer, Mr. Edward M. Mayer, former Bursar, is in charge of the Institute's financial, investment, treasury administrative computing, management information and operational analysis functions. Mr. Mayer also serves as Budget Officer and Chair of the employees' provident fund.



Prof. Prinya



Mr. Mayer



Dr. Hawkey

■ CAMPUS DEVELOPMENT

Campus counsellors

The President has designated three senior colleagues to serve as campus counsellors to whom campus residents may turn for advice or assistance on non-routine problems that may arise, particularly outside normal working hours. In such matters, the emphasis is on advice, moral support and assistance rather



*From left:
Dr. Tien, Dr. Sadananda and Dr. Batanov*

than on mechanistic tasks (such as rendering of Physical Plant services in response to the needs of campus residents).

The current team is composed of Dr. Anila Sadananda, Dean of Student and Community Affairs, Dr. D. N. Batanov of the School of Advanced Technologies, and Dr. Hoang Le Tien of the Regional Computer Center.

Construction

Proposed SOM building

The large September 1997 intake for the School of Management has further aggravated space shortage, calling attention to the critical need for the planned SOM building.

Additional on-campus housing

Four new dormitory blocks (T, U, V and W) are expected to be ready for occupancy by the end of July 1998.

The dormitories will provide a total of 208 single units (or 104 single units and 52 married units) and will be built at a cost of Baht 80.5 million.

The urgent need for additional campus accommodation has come as a result of overall increases in full time student enrolment and in the number of participants in the Institute's expanding training and outreach programs.

Training

An intensive training program was conducted for campus security guards, covering fire fighting techniques, rescue operation, and safety management. The training complemented the arrival of a fire-fighting vehicle presented by the Metropolitan Fire Brigades Board of Melbourne, Australia. The vehicle is housed at the security fire station by the front gate.

BUDGET FISCAL YEAR 1996 - 97

INCOME (In Millions of Baht)		EXPENDITURES (In Millions of Baht)	
Tuition		Salaries and Associated Costs	248.32
Regular Tuition	233.00	Capital Purchases	11.60
Short Courses	8.50	VPAA Academic Units	29.00
<i>Sub-Total</i>	241.50	Academic Support	4.45
Center Contributions		Student Activities	1.48
CEC	4.75	Administrative Departments	5.53
ADPC	2.75	Campus Services	31.11
AIT Center Vietnam	0.50	Campus Wide Support	6.51
Auxiliary Operations	22.00	Budget Contingency and Reserves	3.0
<i>Sub-Total</i>	30.00		
RCC (other than tuition)	3.25		
Contract Research Income	16.00		
Government Grants	23.00		
Other Sources			
Investment Income	22.00		
Other Income	5.25		
<i>Sub-Total</i>	27.25		
Grand Total	341.00	Grand Total	341.00
<i>% increase over the last year</i>		<i>16.38%</i>	

■ **COMMUNITY EVENTS**

AIT Fair '97

Through the Institute's annual fair, all members of the community and their guests enjoy unique opportunities to broaden their knowledge of the music, art, culture, crafts and cuisine of the different countries that make up the AIT family.

The Student Union, closely collaborating with the Office of the Dean of Student and Community Affairs, plays a key role in organizing these annual events.

The 1997 AIT Fair was held on 7 March, highlighted by a grand cultural show. Dressed in their traditional costumes, the students welcomed guests to the nationality stalls. The day's first prize for the best nationality stall was awarded to the Indonesian students.



SERD Research Bazaar and Job Fair

The School of Environment, Resources and Development together with the Office of the Dean of Student and Community Affairs and the AIT Student Union organized the SERD Research Bazaar and Job Fair on 5 August. The twin event saw students displaying and demonstrating their research work. Employment and career opportunities were presented by representatives from business, industry, and international agencies. They also conducted preliminary interviews with potential job applicants.

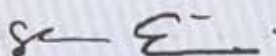


FINANCIAL STATEMENTS AND AUDITOR'S REPORT

To The Board of Trustees of the Asian Institute of Technology

We have examined the balance sheets of the Asian Institute of Technology as at June 30, 1997 and 1996, the statements of revenues and expenditures of unrestricted current fund and restricted general fund, and the related statements of changes in fund balance for the years then ended. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial position of the Asian Institute of Technology as at June 30, 1997 and 1996, the revenue and expenditures of unrestricted current fund and restricted general fund and the changes in fund balance for the years then ended, in conformity with generally accepted accounting principles appropriate for non-profit organizations as set out in Note 1 to the financial statements applied on a consistent basis.



*Somboon Supasiripinyo
Certified Public Accountant
Peat Marwick Suthee Limited
Bangkok, 25 November 1997*

ASIAN INSTITUTE OF TECHNOLOGY NOTES TO FINANCIAL STATEMENTS

NOTE 1 - BASIS OF PRESENTATION FINANCIAL STATEMENTS

■ Fund Accounting

To ensure observance of the limitations and restrictions placed on the use of the resources available to the Institute, the books of account of the Institute are maintained in accordance with the principles of "fund accounting". This is the procedure by which resources for various purposes are classified for accounting and reporting purposes into funds which are in accordance with specified activities or objectives. Within each fund group, fund balances which are restricted by outside sources are so indicated and are distinguished from the unrestricted fund allocated to specific purposes by action of the governing board. As for the unrestricted fund, the governing board retains full control to use to achieve its institutional purposes.

Investment income is recognized as income in the unrestricted current fund except endowments, general reserve and capital funds, which are accounted for in the fund to which they are restricted.

Other unrestricted revenues are recognized as income in the unrestricted current fund.

Restricted contributions, grants, appropriations and other restricted resources are accounted for under the appropriate restricted funds.

Incomes and expenses of the restricted fund and the sponsored program fund operated at the Asian Institute of Technology Center in Vietnam, totalling Baht 10.75 million (for incomes) and Baht 20.48 million (for expenses), were recorded based on detailed documents received. Corresponding documents are normally retained at the Asian Institute of Technology Center in Vietnam.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

■ Accrual Basis

The financial statements have been prepared on an accrual basis except for the depreciation of fixed assets and contributions.

Depreciation of fixed assets is not recorded in accordance with the fund accounting concept.

Contributions are recognized on a cash basis due to the uncertainty in receiving contributions which are at the discretion of the donors.

The statement of revenues and expenditures of the unrestricted current fund and the restricted general fund is a statement of financial activities of current fund related to the current reporting period. It does not purport to present the results of operations for the period, as would an earnings statement.

■ Contributions in-kind

Contributions in-kind are reflected in the financial statements on a fair value basis at the time of receipt.

■ Inventories

Inventories are valued at the lower of cost (first-in, first out basis) and net realizable value.

■ Investments

Investment in debentures and warrants are stated at total lower of cost or market value.

■ Fixed Assets

Fixed assets are stated at cost at the time of acquisition or fair value at the time of donation in the case of contributions in-kind.

■ Foreign Currencies

Exchange rates adopted:

- Foreign currency transactions during the year
- at the rates ruling on transaction dates.

Assets and liabilities in foreign currency outstanding on the balance sheet date

- at the rates ruling on the balance sheet date

Exchange gains and losses are included in determining income.

NOTE 3 - INVESTMENTS

Investments as at June 30, consisted of :

	1997 Baht	1996 Baht
Time deposits with banks	237,580,039	198,072,961
Deposits with finance companies	233,518,293	195,180,130
Debenture	12,500,000	12,500,000
Warrant	<u>331,500</u>	<u>4,040,000</u>
Total	<u>483,929,832</u>	<u>409,793,091</u>

The investments of each fund as at June 30, are as follows:

	1997 Baht	1996 Baht
Unrestricted current fund	16,068,694	8,236,898
Restricted fund		
General	113,816,275	86,761,170
Endowment	82,059,396	66,826,137
General reserve	<u>155,770,682</u>	<u>150,838,788</u>
	351,646,353	304,426,095
Capital fund		
Liquid assets	3,068,500	2,255,162
Repairs and maintenance reserve	<u>2,119,523</u>	<u>1,729,351</u>
	5,188,023	3,984,513
Sponsored program fund	49,156,364	33,410,049
Agency fund	<u>61,870,398</u>	<u>59,735,536</u>
Total	<u>483,929,832</u>	<u>409,793,091</u>

Time deposits with banks amounting to Baht 34.45 million (1996: Baht 33.45 million) of the restricted general reserve fund have been pledged with a bank as a collateral against outstanding letters of guarantee issued by the bank (see Note 10)

At June 30, 1997, there were deposits with finance companies whose operations were suspended temporarily as announced by the Ministry of Finance on June 27, 1997 and August 8, 1997, respectively, from which an amount of Baht 1.62 million was converted as a deposit with Krungthai Thanakit Public Company Limited. The total deposit in the amount of Baht 41.53 million was redeemed in September 1997.

NOTE 4 - ADVANCE DUTIES AND TAXES

These represent advance duties and tax payments to the Government of Thailand which will be subsequently refunded to the Institute in accordance with the letter of the Office of the Secretary-General to the Cabinet dated July 16, 1985. The refund of the advance is for non-Thai faculty and staff and is subject to the annual budget of the Government of Thailand.

The details of advance duties and taxes as at June 30, are as follows :-

	1997 Baht	1996 Baht
Employees personal income tax	3,246,846	24,673,733
Import and tax duty		
- Automobile	368,734	1,299,895
- Wine and spirits	<u>101,837</u>	<u>230,094</u>
	<u>3,717,417</u>	<u>26,203,722</u>

RESOURCES AND ADMINISTRATION

NOTE 5 - FIXED ASSETS

Fixed assets as at June 30, are as follows :

	1997 Baht	1996 Baht
Campus development	34,115,706	32,930,352
Buildings	753,173,368	744,245,706
Furniture and equipment	707,122,791	756,627,913
Library acquisitions	116,040,194	107,347,930
Construction in progress	<u>51,796,472</u>	<u>41,730,627</u>
	<u>1,662,248,531</u>	<u>1,682,882,528</u>

The Institute entered an agreement with the Ministry of Finance to lease land for 30 years from January 19, 1971 to January 18, 2001, with an option to renew the lease.

Depreciation for the year amounting to Baht 82,542,713 (1996: Baht 74,690,016) has not been recorded in accordance with the fund accounting concept.

NOTE 6 - CONTRIBUTIONS IN-KIND

This represents services donated to the Institute in the form of seconded faculty or staff, the value of which is estimated based on the Institute's approved professional salary scale. The amounts are recognized as revenues and expenditures in the restricted general fund.

NOTE 7 - FUND BALANCES

Fund balances as at June 30, are as follows :

	1997 Baht	1996 Baht
Restricted fund		
General	116,483,040	56,496,379
Endowment	82,102,946	67,101,783
General reserve	<u>245,596,162</u>	<u>250,434,269</u>
	<u>444,182,148</u>	<u>374,032,431</u>
Capital fund		
Fixed assets	1,662,248,531	1,682,882,528
Liquid assets - Unallocated	4,891,213	23,225,140
Liquid assets - Allocated	(41,559,206)	(15,014,433)
Repairs and maintenance reserve	<u>2,119,523</u>	<u>1,729,350</u>
	<u>1,627,700,061</u>	<u>1,692,822,585</u>

NOTE 8 - AIT INSURED SAVINGS FUND

The Institute and the staff have jointly set up an Insured Savings Fund scheme, to which the staff and the Institute contribute at the rate of 5% and 10% of basic salary, respectively. This fund is managed by Aon Consulting (Thailand) Ltd. Withdrawal and refund of contributions and related earnings by staff should comply with the rules of the Insured Savings Fund.

NOTE 9 - CAPITAL COMMITMENTS

As at June 30, 1997, the Institute had capital commitments in respect of building construction amounting to approximately Baht 1.44 million (1996: Baht 6.22 million).

NOTE 10 - BANK GUARANTEES

As at June 30, 1997, there were outstanding bank guarantees of approximately Baht 34.45 million (1996: Baht 33.45 million) issued by a bank on behalf of the Institute in respect of certain performance bonds as required in the normal course of activities of the Institute.

NOTE 11 - SUBSEQUENT EVENTS

The Institute transferred cash at banks from the restricted fund to the capital fund for construction in October and December 1997, in the amount of Baht 33.53 million and Baht 35 million, respectively.

Notification by the Ministry of Finance regarding the adjusted foreign exchange system

As at July 2, 1997, the Ministry of Finance adjusted the system of foreign exchange to a managed float system.

As at June 30, 1997, the Institute has net assets in foreign currency equivalent to US dollars 2.75 million. The Institute gained from the adjusted exchange rate an estimated amount of Baht 35.87 million, using the exchange rate of 39.20 Baht per US dollar.

ASIAN INSTITUTE OF TECHNOLOGY
BALANCE SHEETS
AS AT JUNE 30, 1997 AND 1996

	Unrestricted Current Fund		Restricted Fund		Capital Fund		Sponsored Program Fund		Agency Fund		Total	
	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT
ASSETS												
Cash at banks	20,960,283	2,781,441	96,846,386	72,822,265	(38,223,954)	10,616,256	27,291,105	19,393,278	110,739,686	55,589,853	217,613,506	160,903,073
Investments (Note 3)	16,068,694	8,236,898	351,646,353	304,426,095	5,188,023	3,984,513	49,156,364	33,410,049	61,870,398	59,735,536	483,929,832	409,793,091
Advance duties and taxes (Note 4)	3,717,417	26,203,722	-	-	-	-	-	-	-	-	3,717,417	26,203,722
Accounts receivable and accrued income	3,122,229	5,073,738	6,141,134	5,867,597	83,953	714,813	10,062,535	4,534,446	226,949	676,583	19,636,800	16,867,177
Deposits	1,042,472	910,622	63,861	63,862	-	-	-	-	-	-	1,106,333	974,484
Inventories	-	-	528,995	671,212	-	-	-	-	-	-	528,995	671,212
Due from other funds	-	-	98,000,000	98,000,000	-	-	-	-	-	-	98,000,000	98,000,000
Fixed assets (Note 5)	-	-	-	-	1,662,248,531	1,682,882,528	-	-	-	-	1,662,248,531	1,682,882,528
Total Assets	44,911,095	43,206,421	553,226,729	481,551,031	1,629,296,553	1,698,198,090	86,510,004	57,337,773	172,837,033	116,001,972	2,486,781,414	2,396,295,287
LIABILITIES AND FUND BALANCES												
LIABILITIES												
Accounts payable and accrued expenses	5,101,080	3,656,861	8,755,860	7,963,920	1,596,492	5,375,505	572,752	631,948	1,026,215	1,280,531	17,052,399	18,908,765
Deposits	1,295,300	1,034,845	2,288,721	1,554,680	-	-	-	-	-	-	3,584,021	2,589,525
Due to other funds	-	-	98,000,000	98,000,000	-	-	-	-	-	-	98,000,000	98,000,000
Total Liabilities	6,396,380	4,691,706	109,044,581	107,518,600	1,596,492	5,375,505	572,752	631,948	1,026,215	1,280,531	118,636,420	119,498,290
FUND BALANCES (Note 7)	38,514,715	38,514,715	444,182,148	374,032,431	1,627,700,061	1,692,822,585	85,937,252	56,705,825	171,810,818	114,721,441	2,368,144,994	2,276,796,997
Total Liabilities and Fund Balances	44,911,095	43,206,421	553,226,729	481,551,031	1,629,296,553	1,698,198,090	86,510,004	57,337,773	172,837,033	116,001,972	2,486,781,414	2,396,295,287

The accompanying notes are an integral part of the financial statements.


PRESIDENT

RESOURCES
AND ADMINISTRATION

ASIAN INSTITUTE OF TECHNOLOGY
STATEMENTS OF REVENUES AND EXPENDITURES - UNRESTRICTED CURRENT FUND AND RESTRICTED FUND - GENERAL
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996

	Unrestricted Current Fund		Restricted Fund - General		Total	
	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT	1997 BAHT	1996 BAHT
REVENUES:						
Tuition and fees:						
Academic unit	251,429,770	223,537,220	-	-	251,429,770	223,537,220
Computer center	7,834,356	6,836,590	-	-	7,834,356	6,836,590
	259,264,126	230,373,810	-	-	259,264,126	230,373,810
Gifts and contributions:						
Cash	33,748,582	19,377,212	124,944,439	147,911,858	158,693,021	167,289,070
In - kind	-	-	112,880,679	78,795,361	112,880,679	78,795,361
	33,748,582	19,377,212	237,825,118	226,707,219	271,573,700	246,084,431
Grants and contracts	21,675,326	22,492,619	13,924,167	15,610,694	35,599,493	38,103,313
Sales and services:						
Educational activities	36,394	-	59,691,682	63,534,754	59,691,682	63,534,754
Others	36,394	37,736	1,858,659	1,856,059	1,895,053	1,893,795
	72,788	75,472	61,550,341	65,390,813	63,446,735	65,428,549
Income from investments	24,773,372	21,161,314	-	-	24,773,372	21,161,314
Auxiliary services	-	-	131,098,905	121,522,508	131,098,905	121,522,508
Recovery of indirect costs	30,303,614	23,831,990	-	-	30,303,614	23,831,990
AIT sponsored programs	-	-	13,579,223	6,511,972	13,579,223	6,511,972
Physical plant support	-	-	25,321,070	28,666,475	25,321,070	28,666,475
Exchange stabilization	-	-	3,207,790	4,036,304	3,207,790	4,036,304
Miscellaneous	-	-	34,486,399	16,287,761	34,486,399	16,287,761
Total Revenues	369,801,414	317,274,681	520,993,013	484,733,746	890,794,427	802,008,427
EXPENDITURES:						
Salaries and associated costs:						
Cash	255,919,498	221,344,354	7,781,993	7,019,973	263,701,491	228,364,327
In kind (Note 6)	-	-	112,880,679	78,795,361	112,880,679	78,795,361
	255,919,498	221,344,354	120,662,672	85,815,334	376,582,170	307,159,688
Academic units operating costs	32,695,171	29,373,980	119,188,438	150,881,015	151,883,609	180,254,995
Student related costs	1,865,621	1,476,104	6,501,596	5,601,770	8,367,217	7,077,874
Administrative support costs	6,043,816	4,833,818	6,096	117,084	6,049,912	4,950,902
Capital purchases	14,572,486	13,372,287	(202,519)	(58,816)	14,369,967	13,313,971
Campus wide services	57,924,476	45,821,542	-	-	57,924,476	45,821,542
Physical plant support costs	-	-	37,421,840	43,074,459	37,421,840	43,074,459
AIT sponsored programs	-	-	16,937,506	15,418,175	16,937,506	15,418,175
Auxiliary services costs	-	-	88,183,118	84,609,587	88,183,118	84,609,587
Exchange stabilization	-	-	3,186,095	5,441,749	3,186,095	5,441,749
Other costs	-	-	69,121,510	56,106,372	69,121,510	56,106,372
	369,021,068	316,222,585	461,006,352	447,006,729	830,027,420	763,229,314
Total Expenditures	780,346	1,052,096	59,986,661	37,727,017	60,767,007	38,779,113
Excess of Revenues Over Expenditures						

The accompanying notes are an integral part of the financial statements.

ASIAN INSTITUTE OF TECHNOLOGY
STATEMENT OF CHANGES IN FUND BALANCES
FOR THE YEAR ENDED JUNE 30, 1997 (WITH COMPARATIVE TOTALS FOR 1996)

	RESTRICTED FUND										CAPITAL FUND				Total					
	Unrestricted		Endowment		General Reserve		Fixed Assets		Liquid Assets		Liquid Assets		Sponsored Program Fund		Agency Fund		1997		1996	
	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT	BAHT
Balances July 1, 1996 (Note 7)	38,514,715	56,496,379	67,101,783	250,434,269	1,682,882,528	23,225,140	(15,014,433)	1,729,350	56,705,825	114,721,441	2,276,796,997	2,221,885,347								
Adjustments:																				
Disposal of assets	-	-	-	-	(100,893,289)	-	-	-	-	-	-	-	(100,893,289)	-	-	-	-	-	-	(67,816,977)
Additions:																				
Excess of revenues over expenditures (expenditures over revenues)	780,346	59,986,661	-	(22,769,035)	-	-	-	-	29,231,427	57,089,377	124,318,776	8,712,986	-	-	-	-	-	-	-	-
Investment income	-	-	1,436,163	17,540,755	-	-	-	-	-	-	-	20,581,998	-	-	-	-	-	-	-	-
Government grants and appropriations	-	-	13,350,000	-	-	22,806,964	-	-	-	-	-	17,432,117	-	-	-	-	-	-	-	-
Gain on rate of exchange	-	-	215,000	-	-	-	-	-	-	-	-	350,000	-	-	-	-	-	-	-	-
Miscellaneous income and contributions	-	-	-	-	-	1,253,467	22,877,029	-	-	-	-	53,819,518	-	-	-	-	-	-	-	-
Contributions - in kind	-	-	-	-	-	-	12,043,087	-	-	-	-	31,334,185	-	-	-	-	-	-	-	-
Due from other fund	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	39,295,061	116,483,040	82,102,946	245,205,989	1,581,989,239	24,478,607	42,712,647	1,729,350	85,937,252	171,810,818	2,391,744,949	2,286,299,174								
Deductions:																				
Inter-fund transfer from (to)																				
- Restricted Current Fund	-	-	-	390,173	-	-	-	390,173	-	-	-	780,346	-	-	-	-	-	-	-	-
- General Reserve	(390,173)	-	-	-	-	-	-	-	-	-	-	(390,173)	-	-	-	-	-	-	-	(526,048)
- Liquid Assets Capital Fund	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Allocated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(526,048)
- Repairs and Maintenance Reserve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Expenditures for plant facilities																				
- Cash	-	-	-	-	80,259,292	-	(19,929,647)	-	-	-	60,329,645	122,323,466	-	-	-	-	-	-	-	-
- Kind	-	-	-	-	-	-	(12,043,087)	-	-	-	(12,043,087)	(31,334,185)	-	-	-	-	-	-	-	-
Other cost																				
- General	-	-	-	-	-	(19,387,394)	(52,299,119)	-	-	-	(71,886,513)	(100,393,458)	-	-	-	-	-	-	-	-
- Due to other fund	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	(780,346)	-	-	390,173	80,259,292	(19,387,394)	(84,271,853)	390,173	85,937,252	171,810,818	(22,599,955)	(9,502,177)								
Balances June 30, 1997 (Note 7)	38,514,715	116,483,040	82,102,946	245,596,162	1,662,248,531	4,891,213	(41,559,206)	2,119,523	85,937,252	171,810,818	2,368,144,994	2,276,796,997								

The accompanying notes are an integral part of the financial statements.

ON-GOING SPONSORED AND CONTRACT RESEARCH

Abbreviations are listed on page 48.

School of Advanced Technologies

CAD/CAM Application for the Design and Manufacture of Sheet Metal Parts with Numerically Controlled Machines
Investigator: E. L. Bohez
Sponsor: LVD Co., Ltd.

Phase 2: AIT Bangkok-Hanoi-Belgian Cooperation Ministry (BADC) Project
Investigators: E.L.J. Bohez, H. Pastijn, J.R. Dufflou, M. Duchatelet
Sponsor: Belgian Govt.

NC-PC Machine: An Open Architecture CNC Machine. *Investigators:* E.L.J. Bohez, N. Afzulpurkar, M. Parnichkun
Sponsor: Belgian Govt.

Re-design for Manufacture and Assembly of DaySafe Security Drawer
Investigators: E.L.J. Bohez, J.R. Dufflou, N. Rumana, S. Taopanich
Sponsor: DaySafe Co.

Development of a PLC-Based Ball-Catching Machine. *Investigator:* N. Afzulpurkar
Sponsor: Siemens Ltd. (Thailand)

Development of 3-D Range Sensor for Mobile Robot. *Investigator:* M. Parnichkun
Sponsor: AIT Research Initiation Grant

Public E-Mail Services for Lao PDR (People's Democratic Republic)
Investigator: K. Kanchanasut
Sponsors: Laos Post and Telegraph Dept.

Rural Net: Preliminary Study for an Agricultural Information Service
Investigator: K. Kanchanasut
Sponsor: Thai Inst. for Rural Technology

Distance Education
Investigator: H.N. Phien
Sponsor: NORTEL

Interference Potential between Non-Geostationary Mobile Satellite Services and Terrestrial Radio Relays
Investigator: K.M. Ahmed
Sponsor: AIT Research Initiation Grant

New Coding and Modulation Techniques for Digital Communication with Special Emphasis on Wireless Communication
Investigator: R.M.A.P. Rajatheva
Sponsor: AIT Research Initiation Grant

Hybrid Fiber/Coax Communication Networks: Performance Analysis and Hardware Design
Investigator: J.G. Zhang
Sponsor: AIT Research Initiation Grant

Systems Analysis and Feasibility Study of MRP II in Siemens Ltd.
Investigators: M.A.A. Hasin, E.L.J. Bohez
Sponsor: Siemens Ltd. (Thailand)

Abrasive Waterjet Cutting of Pre-Formed Sheet Metal Parts with 3-Axis Control
Investigator: E. L. Bohez
Sponsor: Siemens Ltd.
Equipment grant: Belgian Cooperation Ministry (BADC)

Tourism Information on the Internet
Investigator: K. Kanchanasut
Sponsor: Tourism Authority of Thailand

Video Conferencing for Industrial Estates on Internet
Investigator: K. Kanchanasut
Sponsor: Industrial Estate Internet Project

GAIA - A Multimedia Tool for Natural Resources Management and Environmental Education
Investigator: R. Sadananda
Sponsor: EU

Telemedicine
Investigator: R. Sadananda
Sponsor: Siemens AG

International Federation for Information Processing (IFIP)
Investigator: R. Sadananda
Sponsor: IFIP

School of Civil Engineering

Lime/Cement Columns of Soft Bangkok Clay. *Investigator:* A.S. Balasubramaniam, D.T. Bergado; *Sponsor:* Bilfinger and Berger (Thai) Co., Ltd.

Monitoring and Evaluation of Vacuum Consolidation with PVD for the 2nd Bangkok International Airport at Nong Ngu Hao
Investigator: D.T. Bergado
Sponsor: Geotechnics (Thailand) Co., Ltd.

Amplification of Earthquake Ground Motions by Soft Bangkok Clay
Investigator: S.A. Ashford
Sponsor: Chulalongkorn University

Investigation and Design for Improvement of Flood Protection System of Thammasat University, Rangsit Campus
Investigators: T. Tingsanchali, N. Phien-wej
Sponsor: Ministry of Finance

Geotechnical Services for Engineering Construction Supervision of Underground Powerhouse Caverns and Associated Tunnels and Shafts of the Lam Ta Khong Pumped Storage Project, Nakorn Ratchasima Province, Thailand
Investigator: N. Phien-wej; *Sponsors:* Electric Power Development Co./EGAT

Geotechnical Investigation of Rock Properties for the Design of Hongsa Open-Pit Mine, Lao PDR. *Investigator:* N. Phien-wej; *Sponsor:* Thai-Laos Lignite Co., Ltd.

Investigation on Integrity of Chedi Doi Suthep, Chiangmai. *Investigators:* W. Kanok-Nukulchai, N. Phien-wej, P. Warnitchai; *Sponsor:* Dept. of Fine Arts

Study on Integrity and Stability for Renovation of Ancient Structures in Ayutthaya
Investigators: W. Kanok-Nukulchai, N. Phien-wej; *Sponsor:* Dept. of Fine Arts

Flood Protection Master Plan for Thailand
Investigators: S. Vongvisessomjai, P. Nualaya, A. Das Gupta, R. Loof, N. Phien-wej, S. Weesakul
Sponsor: Public Works Dept.

Preparation of Flood Protection Master Plan for Thailand. *Investigators:* S. Vongvisessomjai, P. Nutalaya, A. Das Gupta, R. Loof, N. Phien-wej, S. Weesakul; *Sponsor:* Public Works Dept.

Integrated Decision Support System for Groundwater Monitoring and Management. *Investigators:* A. Das Gupta, R. Loof; *Sponsor:* GTZ GmbH

Systems Analysis for Irrigation Performance Assessment. *Investigator:* R. Loof
Sponsor: German-Israel Agricultural Research Agreement

Study and Detailed Design of Navigation Channel for Krabi Thermal Power Plant
Investigators: S. Vongvisessomjai, S. Weesakul, N. Phien-wej, C. Charoengam; *Sponsor:* EGAT

Study of Traffic-Induced Vibration and Fatigue in 13 Steel Overpass Bridges in Bangkok. *Investigator:* P. Warnitchai
Sponsor: BMA

Engineering Aspects of Incorporating Waste Materials in the Construction of Highways and Buildings. *Investigators:* A.C. Wijeyewickrema, C. Charoengam
Sponsor: Royal Netherlands Govt.

Size Effect Prediction of Concrete Structures
Investigator: T. Kishi; *Sponsor:* JICA

Construction Management in Asia
Investigator: T. Minato; *Sponsor:* JICA

CM Bhutan II Project. *Investigator:* S.O. Ogunlana; *Sponsor:* Royal Govt. of Bhutan

Computer-Assisted Design of Steel Houses and Low-Rise Buildings
Investigator: W. Kanok-Nukulchai
Sponsor: Siam Yamato Steel Co., Ltd.

Collapse of Pumping Station in Wastewater Treatment Plant. *Investigators:* W. Kanok-Nukulchai, N. Phien-wej, A. Naveed; *Sponsor:* Cunningham International (Thailand) Ltd.

Maintenance Management of Water Distribution Systems
Investigator: O. Fujiwara; *Sponsor:* JICA

School of Environment Resources and Development

Monitoring Cassava Cultivation and Production for Yield Forecasting: a Scientific and Technological Approach
Investigators: A. Eiumnoh, A. Noomhorm, S. Baimoung, P. Kesawapitak
Sponsor: Thai Tapioca Development Inst.

Correlation Between Malaria Incidence in Thailand and Changes in Vegetation Cover Using Satellite Remote Sensing
Investigator: K. Nualchawee
Sponsors: UNDP/World Bank, WHO Special Program for Research and Training in Tropical Diseases

Gender Relations, Shifting Cultivation and Resource Management in Ratanakiri, Cambodia. *Investigators:* G. Kelkar, S. Sugiarti, H. Meijers, W. Yunxian
Sponsors: NORAD, CIDSE, Netherlands Embassy in Hanoi

Women and Land Systems in Asia
Investigators: G. Kelkar, W. Yunxian
Sponsors: IDRC, NORAD

Gender and Environment Research in Asia - Concerns and Concepts
Investigators: G. Kelkar, F. Jones, S. Saeed, G. Shrestha, L. Rongmei
Sponsors: ASEAN-Canada Women's Initiative Support Fund, Women and Development Program, Royal Netherlands Govt.

Coping with Mass Lay-off: Assessing Needs and Potential of Women Workers
Investigators: D. Tantiwiramanond, Y. Praparpun, N. Nirathorn
Sponsor: Friends of Women Foundation, Bangkok

Gender and Telework
Investigator: G. Kelkar; *Sponsor:* NORAD

Matrilineal Societies: Gender Relations and Economic Development
Investigator: G. Kelkar
Sponsor: Royal Netherlands Govt.

Cross-Cultural Research on Women/Gender and Development in Asia
Investigators: G. Kelkar, M. Osawa
Sponsor: National Women's Education Center, Japan

Emerging Alternatives in China
Investigators: G. Kelkar, D. Nathan
Sponsor: Netherlands Ministry of Foreign Affairs.

Women Entrepreneurs and Technology in Three Cities of Lao PDR (People's Democratic Republic). *Investigators:* G. Kelkar, Y. Muramatsu, O. Choulamany-Khamphoui; *Sponsor:* Japanese Govt.

Effect of Technological Change on Biodiversity and Gender Relations: Modern Shrimp Farming in Chanthaburi
Investigator: D. Tantiwiramanond
Sponsor: AIT Research Initiation Grant

Promotion of Women in Science and Technology in the 21st Century: Thailand
Investigator: D. Tantiwiramanond; *Sponsor:* Southeast Asian Ministers of Education Organization (SEAMEO) Regional Center for Higher Education and Development

Gender, Disasters and Development
Investigator: J. D'Cunha; *Sponsor:* NORAD

Gender Issues in Capacity Building of Water Users Association in Lao PDR (People's Democratic Republic).
Investigator: K. Furusawa
Sponsor: Japanese Govt.

High Rate Anaerobic Treatment of Tapioca Starch Wastewater
Investigator: A.P. Annachhatre
Sponsor: Thai Tapioca Development Inst.

Lactic Acid-Based Chemicals
Investigator: A. P. Annachhatre
Sponsor: AIT Research Initiation Grant

Waste Minimization and Energy Savings for Selected Industries
Investigator: S. Muttamara
Sponsor: Petroleum Authority of Thailand

Development of Energy Efficient and Environmentally Sound Industrial Technologies in Asia
Investigators: C. Visvanathan, B. Mohanty
Sponsor: SAREC-Sida

Treatment and Disposal of Mercury Contaminated Waste. *Investigators:* C. Visvanathan, S. Muttamara
Sponsor: TOTAL, Thailand

- Wastewater Nitrogen Removal (AIT-Denmark Technical University Twinning)**
Investigators: A.P. Annachhatre, C. Polprasert; *Sponsor:* Danida
- Feasibility Study: Agricultural Use and Land Application of Sewage Sludge and Nightsoil Sludge for BMA**
Investigators: H. Eckhardt, C. Polprasert, P. Parkpian, R. Tinsley; *Sponsor:* BMA
- Advancement of Activated Sludge Process by Applying Pre-treatment**
Investigator: H. Eckhardt; *Sponsor:* Industrial Estate Authority of Thailand
- Integrated Approach to Industrial Estate Wastewater Treatment and Management**
Investigator: H. Eckhardt; *Sponsor:* GTZ
- Development of Water Renovation Technology Using Bio-Eco Engineering System**
Investigators: S. Takisawa, C. Polprasert, A.P. Annachhatre, Y. Inamori; *Sponsor:* National Institute of Environmental Studies, Japan
- Septage Treatment in Constructed Wetlands and in Attached-Growth Waste Stabilization Ponds**
Investigator: C. Polprasert
Sponsor: Swiss Federal Institute for Environmental Science and Technology
- Membrane Separation for Drinking Water Treatment**
Investigator: S. Takizawa; *Sponsor:* JICA
- Toxic Sludge Management Plan for Thainox**
Investigators: C. Visvanathan, C. Polprasert, S. Muttamara
Sponsor: Thainox
- Inventorisation of Hazardous Wastes**
Investigator: C. Visvanathan
Sponsor: MAE(F)
- Biofilter Development for Advanced Wastewater Treatment**
Investigator: S. Takizawa; *Sponsor:* JICA
- Developing Environmental Sustainability through Solid Waste Management**
Investigators: C. Visvanathan, S.A. Ashford
Sponsor: Royal Netherlands Govt.
- Assessment of Conservation Potential in Commercial Buildings in Sri Lanka**
Investigator: R.A. Attalage
Sponsor: ADEME
- Study of Biomass on Energy Source and Technical Option for Greenhouse Gas Emission Reduction**
Investigators: S.C. Battacharya, R.M. Shrestha, S. Kumar, S. Pinit
Sponsor: Sida
- Renewable Energy Technologies in Asia**
Investigators: S.C. Battacharya, S. Kumar; *Sponsor:* SAREC
- Asian-Regional Post-Doctoral and Research Fellowship Program**
Investigator: S. C. Battacharya
Sponsor: Sida
- Interfuel Substitution Analysis and Modeling in Asian Developing Countries**
Investigators: X. Chen, T. Lefevre, B. Bacurle, N.D. Dam
Sponsors: MAE(F)/AIT
- Environmental Monitoring and Analysis of Toxic Wastes in the Gulf of Thailand**
Investigator: J. Hambrey
Sponsor: TOTAL - Thailand
- Solar Air Dryer for Value Added Food Products**
Investigator: S. Kumar
Sponsor: AIT Research Initiation Grant
- Solar Thermal Energy for Sustainable Development in Rural Asia**
Investigator: S. Kumar
Sponsors: Royal Netherlands Govt./AIT
- Chemical Heat Pumps**
Investigators: S. Kumar, R. A. Attalage
Sponsor: MAE(F)
- Energy Planning and Environmental Data Base**
Investigators: T. Lefevre, X. Chen, G.R. Timilsina, S.K. Acharya
Sponsors: UNDP, ESCAP, MAE(F)
- Sectoral Energy Demand Forecast Model for Africa and Pacific Countries**
Investigators: T. Lefevre, S.K. Acharya
Sponsor: MAE(F)
- Energy-Environment Modeling**
Investigators: T. Lefevre, S.K. Acharya
Sponsor: UNDP, ESCAP, MAE(F)
- Sectoral Energy Demand Forecast Model: Energy Saving and Fuel Switching Potentials Study**
Investigators: T. Lefevre, X. Chen, N.D. Dam, N.H. Dung
Sponsors: AFME/ADEME, AIT, French Govt
- Asian Cooperation on Energy and the Environment: Sub-activities of the Energy Environmental Planning (EEP) Project: 1, 2, 3, 5 and 6**
Investigators: T. Lefevre, R.B. Pacudán, S.K. Acharya; *Sponsors:* UNDP, MAE(F)
- Energy Saving Analysis and Modeling in Asian Developing Countries**
Investigators: T. Lefevre, X. Chen, B. Bacurle, N.D. Dam
Sponsor: MAE(F)
- Macro-Economic and Financial Database**
Investigators: T. Lefevre, L. Schwab
Sponsor: MAE(F), AIT
- Market and Technical Study of Solar Water Heaters in Thailand**
Investigators: T. Lefevre, M. Chauvin, N.T. Kim
Sponsors: Thainox Steel Ltd., EEECo. Ltd.
- Least-cost Greenhouse Gas Abatement Strategy for Asia**
Investigators: T. Lefevre, R. Pacudán, S.K. Acharya; *Sponsors:* ADB, ESCAP, UNDP
- Power Sector Study: Investment Prospects and Business Opportunities - Vietnam, Philippines and Thailand**
Investigators: T. Lefevre, G.R. Timilsina, J. Todoc
Sponsor: MAE(F)
- Wood Energy Today for Tomorrow (Phase II)**
Investigators: T. Lefevre, R. Pacudán, J. Todoc, G.R. Timilsina; *Sponsor:* FAO
- Power Sector Study - Investment Prospects and Business Opportunities: Philippines**
Investigators: T. Lefevre, R. Pacudán, J. Todoc
Sponsor: Financial Times
- Power Sector Study - Investment Prospects and Business Opportunities: Thailand**
Investigators: T. Lefevre, R. Pacudán, J. Todoc
Sponsor: Financial Times
- Power Sector Study - Investment Prospects and Business Opportunities: Vietnam**
Investigators: T. Lefevre, R. Pacudán, G. R. Timilsina, J. Todoc
Sponsor: Financial Times

Gas Sector Study - Investment Prospects and Business Opportunities - India

Investigators: T. Lefevre, S. Bhattacharya, R. Pacudan, J. Todoc; *Sponsor:* MAE(F)

Thailand Energy Strategy and Policy Study

Investigators: Energy Research Inst. Thailand/Chulalongkorn Univ., Environment Safety and Energy Services (USA), Energy Planning Center Consultancy Team, AIT; *Sponsor:* NEPO

ALGAS Project: Thailand Least-Cost Greenhouse Gas Abatement Strategies Study. *Investigators:* T. Lefevre, Bui Duy Thanh, T. M. Jinlong; *Sponsors:* Thailand Environment Inst./EEEC Co., Ltd.

Valuation of Externalities in Developing Countries. *Investigators:* T. Lefevre, Bui Duy Thanh; *Sponsors:* EC, Riso-UNEP, NEPO, DANCED, EGAT, AIT

Community Climate Change Socio-Economic, Energy and Technology, and Scientific Research

Investigators: T. Lefevre, G.R. Timilsina; *Sponsor:* Coherence S.P.R.L. (Belgium)

Energy Prices Data in Selected Asian Countries

Investigators: T. Lefevre, G.R. Timilsina; *Sponsor:* Petroleum Economics Ltd. (UK)

Environmental and Social Implications of Electric Power Sector Restructuring

Investigators: T. Lefevre, R. Pacudan, J. Todoc; *Sponsors:* Riso-UNEP, NEPO, EGAT, DANCED, AIT

Post-ALGAS Capacity Building Program for Asian Countries

Investigators: T. Lefevre, R. Pacudan; *Sponsors:* ADB, Global Environment Facility (USA), World Bank

Investigation of Incentives in Relation to a Renewable Energy Strategy; *Investigators:* Ministry of Environment and Energy, Danish Energy Agency, RAMBOLL, Energy Planning Center Consultancy Team, AIT; *Sponsors:* DANCED, NEPO, AIT

Promoting Energy Security in APEC Member Economies through Improved Operation of International Fuel Market

Investigators: T. Lefevre, R. Pacudan; *Sponsor:* Asia-Pacific Economic Commission

Simulation of Demand Site Management Resources as Generating Units in Probabilistic Production Costing Framework

Investigator: A.S. Malik; *Sponsor:* AIT Research Initiation Grant

Module for Financial Evaluation of Energy Efficiency Project

Investigators: B. Mohanty, R. Liu; *Sponsor:* French Govt.

Energy and Environmental Economics Research Study. *Investigators:* R. Pacudan, T. Lefevre; *Sponsor:* MAE(F)

Energy Sector Reforms in Southeast Asia

Investigator: R. Pacudan; *Sponsor:* AIT Research Initiation Grant

Integrated Rural Energy-Environment Planning and Assessment Methodologies

Investigator: R. Pacudan; *Sponsor:* UN/ESCAP

Assessment of Energy Efficiency Options for Mitigating Greenhouse Gas Emission from Electricity Sector

Investigators: R.M. Shrestha, S.C. Bhattacharya; *Sponsors:* SAREC/Sida

Global Environmental Outlook, Phase 2: Participation of Collaborating Center

Investigator: R.M. Shrestha; *Sponsor:* UNEP

Electric Power Systems Management

Investigators: S. Chirarattananon, S. C. Srivastava, A. S. Malik; *Sponsor:* Sida

Phase 2: Electric Power Systems Management;

Investigators: S. Chirarattananon, C. Yu, S.C. Srivastava, A.S. Malik; *Sponsor:* Sida

Methodology for Monitoring the Energy Efficiency of Buildings using the AIT Library as a Case Study

Investigators: S. Chirarattananon, N. Muangkroot, S. Sirins; *Sponsor:* Energy Conservation Promotion Fund (Thai Govt.)

Daylighting: Sky Luminance, Application and Lighting Integration

Investigators: S. Chirarattananon, Silpakorn Univ.

Sponsor: Energy Conservation Promotion Fund (Thai Govt.)

Feasibility of the Establishment of the Energy Conservation Service Industry in Thailand

Investigator: S. Chirarattananon; *Sponsors:* Demand Site Management Office (EGAT, Metropolitan Electricity Authority Thailand, Provincial Electricity Authority, Thailand)

Preparations for a Regional Energy Development and Policy Implications Conference.

Investigator: S. Chirarattananon; *Sponsor:* Banpu PCL

Analysis and Management of Wastes in the Steel Industry

Investigators: C. Visvanathan, C. Polprasert, S. Muttamara, T. Lefevre; *Sponsor:* Thainox Steel Ltd.

Analysis and Management of Toxic Wastes in the Oil Industry

Investigators: C. Visvanathan, S. Muttamara, T. Lefevre; *Sponsor:* TOTAL Exploration and Production

Financing the Advance Construction of Network Infrastructure for Guided Urban Development

Investigator: R. W. Archer; *Sponsor:* Metropolitan Research Trust, et al

Transferring Land Pooling/Readjustment to the Developing Countries of Asia

Investigator: R. W. Archer; *Sponsor:* Metropolitan Research Trust, et al

Land, Housing and Urban Development in Thailand

Investigator: R. W. Archer; *Sponsor:* Metropolitan Research Trust, et al

Utilization of GIS for Planning in Developing Countries

Investigator: H. Morishita; *Sponsor:* JICA

Participatory Framework for Planning Rural Road Networks, Construction and Maintenance: Present Practice and Implication for Developing Countries in Asia. *Investigator:* J.K. Routray
Sponsor: ILO Geneva

Sustainable Solid Waste Management in Kathmandu. *Investigator:* G.B. Thapa
Sponsor: Royal Netherlands Govt.

Planning for Environmentally Sustainable Development
Investigator: G.B. Thapa
Sponsors: United Nations University, Tokyo; Royal Netherlands Govt.; Environmental Pollution Control Board, Orissa, India; Danida, Bangladesh

Sustainable Rural Industrial Development in China
Investigator: B.W.E. Wickramanayake
Sponsor: Royal Netherlands Govt.

Housing Factory Workers in the Northern Corridor of the Bangkok Metropolitan Region
Investigator: Y. Kioe Sheng
Sponsor: National Housing Authority

Mangrove Web Page
Investigator: J. Hambrey
Sponsor: CP Aquaculture

Environmental Impact of Small-Scale Aquaculture
Investigator: S. Setboonsarng
Sponsor: DFID, UK

Advisory Trips to Danida Projects
Investigator: G.K. Hansen; *Sponsor:* Danida

Methods and Strategies for Management and Use of Marginal Land
Investigator: G.K. Hansen
Sponsor: Danida

Risks and Benefits in Utilization of Sewage Sludge for Agricultural Crops
Investigator: G.K. Hansen
Sponsor: Danida

Quality Evaluation of Thai Rice
Investigator: A. Noomhorn
Sponsor: Chia Meng Co., Ltd.

Evolution of Volatile Component during Roasting
Investigator: J.C. Vincent
Sponsor: CIRAD

Rural Development through Aquaculture in Indochina. *Investigators:* H. Demaine, R. Gregory, N. Innes-Taylor, P. Edwards, D. Little, L.T. Luu (Research Inst. for Aquaculture No. 1, Hanoi), L.T. Hung, N.V. Tu (Univ. of Agriculture and Forestry, Ho Chi Minh City)
Sponsor: Sida

Support to AIT Aquaculture Outreach Program in Indochina and Northeast Thailand. *Investigators:* H. Demaine, M. Korn, H.B. Nielsen, P. Edwards
Sponsor: Danida

Support for Regional Aquaculture Development. *Investigators:* P. Edwards, H. Demaine, J. Hambrey, D. Little
Sponsor: ODA

Phase 2: Pond Dynamics Collaborative Research Support Program
Investigators: C.K. Lin, P. Edwards
Sponsor: USAID

Comparative Study of Transition to Alternative Agriculture Practices in Thailand and Japan
Investigator: S. Setboonsarng
Sponsor: Sumimoto Foundation

Design and Development of a Tractor-Mounted Pineapple Dressing Machine. *Investigators:* V.M. Salokhe, C. Kaewprakaisaengkul
Sponsors: Siam Agro Industrial Pineapple Public Co., Ltd., Thailand, et al

Experimentation of a Fluidized Bed Coffee Roaster. *Investigator:* J.C. Vincent
Sponsor: CIRAD

Water Weed Harvester
Investigator: D. Gee-Clough
Sponsor: AIT

School of Management

Entrepreneurship in High Technology Firms in Thailand
Investigator: B. Igel
Sponsor: (in cooperation with Inst. of Strategy and International Business, Helsinki Univ. of Technology)

Comparative Financial Markets in Asia
Investigators: F.W. Swierczek, J.P. Gupta
Sponsor: EC

AIT School of Management-EC Partnership
Investigators: J.P. Gupta, F. W. Swierczek, P. Gougeon; *Sponsor:* EC

Financing Technological Investment
Investigator: J.P. Gupta
Sponsor: French Govt.

Project Financing for the European Community. *Investigator:* J.P. Gupta
Sponsor: EC

International Joint Venture: Case Analysis
Investigator: J.P. Gupta
Sponsor: EC

Case Studies in Technology Parks in Asia
Investigator: F. W. Swierczek
Sponsor: National Science Technology Development Agency, Thailand

Feasibility Study for Thailand Distance Training Network
Investigator: F.W. Swierczek
Sponsor: National Science Technology Development Agency, Thailand

RESEARCH CONTRACTS SIGNED IN 1997

Abbreviations are listed on page 48.

Title	School/Center	Sponsor	Period
January			
Feasibility Study of Mapping Agricultural Resources	SERD	Office of Agricultural Economics, Thailand	8 months
Information Technology Strategy for Institute of Engineering, Tribhuvan Univ., Nepal	RCC	Institute of Engineering Tribhuvan Univ., Nepal	2 months
Flood Protection Master Plan Study	SCE	Public Works Dept., Thailand	12 months
Elucidation of Factors Affecting the Extractability of Sweet Potato Starch	SERD	International Potato Center, Bogor, Indonesia	13 months
Feasibility Study of the Production of Chitin-Chitosan Membranes for Use as Temporary Skin Substitutes	SERD	MITEC, Thailand	12 months
Feasibility Study of Agricultural Use and Land Application of Sewage Sludge	SERD	Bangkok Metropolitan Administration	18 months
Financial Software Evaluation for GPI Co.Ltd.	SAT	Golden Poultry International Co. Ltd.	1 month
Human Resources Management Information System (HRMIS)	RCC	Telephone Organization of Thailand	24 months
Web Site 2	SERD	UNESCAP	12 months
May			
Study of the Integrity and Stability for Renovation of Ancient Structures in Ayutthaya	SCE	Stonehenge Design & Consultants Co.	7 months
Disposal of Mercury and Other Hazardous Wastes	SERD	TOTAL Exploration and Production, Thailand	12 months
Full Scale Embankment Using Wire Mesh Reinforcement	SCE	B.B. Trading Co. Sdn. Bhd.	12 months
Computer-Assisted Design of Steel Houses and Low-Rise Buildings	SCE	Siam Yamato Steel Co. Ltd.	20 months
Evaluation of New Profiles of Hitek Prefabricated Vertical Drain	SCE	Nylex (Malaysia) Sdn. Berhad	12 months
Mangrove Web Page	SERD	Charoen Pokphand Co. Ltd. Aquaculture	12 months
Investigation of the Causes of Failure of the Quay Wall at the Cement Docking Terminal of the Siam Cement Factory at Ta Luang, Saraburi Province	SCE	Siam Cement Public Co. Ltd.	2.5 months
Development of a Program for Comprehensive Improvement of Energy Efficiency in Industrial Factories	SERD	Electricity Generating Authority of Thailand (EGAT)	1.5 months
Geotechnical Investigation of Rock Properties for the Design of the Hongsa Open-Pit Coal Mine, Lao PDR	SCE	Thai Laos Lignite Co. Ltd.	14 months
September			
Institute of Engineering - Information Technology Consultancy Project II	RCC	Institute of Engineering Tribhuvan Univ., Nepal	5 months
AIT-UNCDF Project of Cooperation	SERD	United Nations Capital Development Fund	36 months
Construction Engineering and Management	SCE	Royal Government of Bhutan	7 months
Study of Traffic-Induced Vibration and Fatigue in 13 Steel Overpass Bridges in Bangkok	SCE	Bangkok Metropolitan Administration	8 months
Accelerated Aging Technique for Thai Rice	SERD	Thailand Research Fund	30 months

1997 LIST OF FACULTY MEMBERS

FULL-TIME FACULTY

(Full-time faculty members are listed in alphabetical order. The italicized entries are abbreviations of their respective Schools or Academic Centers. See page 48).

Nitin V. Afzulpurkar
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BUET	Bangladesh University of Engineering and Technology
EUR	Eramus University, Rotterdam
IIT	Indian Institute of Technology
INP	Institut National Polytechnique, France
INSTN	Institut National des Sciences et Techniques Nucleaires, France
KMIT	King Mongkut's Institute of Technology, Thailand
KMITT	King Mongkut's Institute of Technology (Thonburi), Thailand
MIT	Massachusetts Institute of Technology
NIDA	National Institute of Development Administration, Thailand
REC	Regional Engineering College, India
UNSW	University of New South Wales, Australia
UPLB	University of the Philippines, Los Banos
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ABBREVIATIONS

ADB	Asian Development Bank	SEAMES	Southeast Asian Ministers of Education Secretariat
ADEME	Agence de l'Environnement et de la Maîtrise de l'Énergie (formerly AFME)	Sida	Swedish International Development Cooperation Agency
AFME	French Agency for Energy Management	UCLES	University of Cambridge Local Examinations Syndicate
ASEAN	Association of Southeast Asian Nations	UN	United Nations
BMA	Bangkok Metropolitan Administration	UNCDF	United Nations Capital Development Fund
CEC	Commission of the European Communities	UNDCP	United Nations Drug Control Program
CIDSE	Int'l Cooperation for Development and Solidarity	UNDHA	United Nations Department of Humanitarian Affairs
CIP	International Potato Center	UNHCR	United Nations High Commission for Refugees
CIRAD	Int'l Center for Research in Developing Countries	UNIDO	United Nations Industrial Development Organization
CRED	Centre de Recherche sur L'Epidemiologie	UNDP	United Nations Development Program
CUC	Canadian Universities Consortium	UNEP	United Nations Environment Program
DAAD	Deutscher Akademischer Ausländerdienst	UNEP EAP/AP	UNEP Environment Assessment Program for Asia and the Pacific
DANCED	Danish Cooperation for Economic Development	UNESCO	United Nations Educational, Scientific and Cultural Organization
DANIDA	Danish International Development Assistance	UNICEF	United Nations Children's Fund
DFID	Dept. for International Development, UK (formerly Overseas Development Administration, ODA)	WHO	World Health Organization
DSM	Demand Site Management Office	WTUSM	Wuhan Technical University of Surveying and Mapping, People's Republic of China
DTEC	Dept. of Technical and Economic Cooperation, Thailand	WWF	Worldwide Fund for Nature
EC	European Community		
EEEC	Energy Economics Environment Consultants Co. Ltd.	SCHOOLS	
EGAT	Electricity Generating Authority of Thailand	SAT	School of Advanced Technologies
ETA	Expressway and Rapid Transit Authority of Thailand	SCE	School of Civil Engineering
ESA	European Space Agency	SERD	School of Environment, Resources and Development
ESCAP	Economic and Social Commission for Asia and the Pacific, UN	SOM	School of Management
EU	European Union		
FAO	Food and Agriculture Organization, UN	PROGRAMS	
GTZ	German Agency for Technical Cooperation	AAS	Agricultural and Aquatic Systems
IDRC	International Development and Research Center, Canada	AFE	Agricultural and Food Engineering
ILO	International Labour Organization, UN	BPT	Bioprocess Technology
IUCN	International Union for the Conservation of Nature	CSIM	Computer Science and Information Management
IPST	Institute for the Promotion of Teaching Science and Technology, Thailand	EE	Environmental Engineering
ITC	International Institute for Aerospace Survey and Earth Science, the Netherlands	EMBA	Executive Master of Business Administration
JICA	Japan International Cooperation Agency	EP	Energy Program
JIRCAS	Japan International Research Center for Agricultural Sciences	GE	Geotechnical Engineering
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NASDA	National Space Development Agency of Japan	ISE	Industrial Systems Engineering
NEPO	National Energy Policy Office, Thailand	MT	Management of Technology
NORAD	Norwegian Agency for Development Cooperation	PCAD	Programs in Computer Applications Development
OECD	Organization for Economic Cooperation and Development	PPT	Pulp and Paper Technology
OCAJI	Overseas Construction Association of Japan, Inc.	SEC	Structural Engineering and Construction
SAREC	Swedish Agency for Research Cooperation with Developing Countries	STAR	Space Technology and Applications Research
		TC	Telecommunications
		TE	Transportation Engineering
		UEM	Urban Environmental Management
		WEM	Water Engineering and Management
		CENTERS	
		ADPC	Asian Disaster Preparedness Center
		AITCV	AIT Center in Vietnam
		CEC	Continuing Education Center
		CLAIR	Center for Library and Information Resources
		CLET	Center for Language and Educational Technology
		RCC	Regional Computer Center
		SAV	Swiss-AIT-Vietnam Management Development Program

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