

# ANNUAL REPORT 1994

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SCHOOL OF ADVANCED TECHNOLOGIES

SCHOOL OF CIVIL ENGINEERING

SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT

SCHOOL OF MANAGEMENT

Computer Science ● Industrial Engineering ● Information Management ● Manufacturing Systems Engineering ● Telecommunications ● Construction Engineering and Management ● Engineering and Applied Geology ● Infrastructure Planning and Management ● Irrigation Engineering and Management ● Riverine and Coastal Engineering ● Soil Engineering ● Structural Engineering ● Transportation Engineering ● Water Resources Development ● Agricultural Machinery and Management ● Agricultural Systems ● Aquaculture ● Bioprocess Technology ● Electric Power Systems Management ● Energy Planning and Policy ● Energy Technology ● Environmental Remote Sensing and Geoinformation for Development ● Environmental Technology and Management ● Post-Harvest and Food Process Engineering ● Regional and Rural Development Planning ● Resource Planning and Management ● Urban Development Planning and Environmental Management ● Water and Wastewater Engineering ● International Business ● Management of Technology

ASIAN DISASTER PREPAREDNESS CENTER

CENTER FOR LANGUAGE AND EDUCATIONAL TECHNOLOGY

CONTINUING EDUCATION CENTER

LIBRARY AND REGIONAL DOCUMENTATION CENTER

REGIONAL COMPUTER CENTER

AIT CENTER IN VIETNAM

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Asian Institute of Technology



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COVER: Interdisciplinarity and rationalisation of course offerings in the four Schools and the continuing expansion of outreach activities by the Centers constitute the Institute's response to the growing complexities of global development.

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The 1994 Annual Report of the Asian Institute of Technology has been prepared by the Office of Media and Information Services.

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# THE YEAR IN BRIEF

## 1994 LANDMARK EVENTS

### ○ February 17

The AIT Center in Vietnam was officially inaugurated by H. E. Mr. Mauri Eggert, Finnish Minister for Development Cooperation, AIT President Alastair North and H.E. Prof. Pham Minh Hac, First Vice-Minister of Education and Training of the Government of SR Vietnam.

### ○ June 19 -24

His Royal Highness the Crown Prince Dipendra Bir Bikram Shah Dev of Nepal attended courses in information technology and discussed the expansion of collaboration between his country and AIT.

### ○ December 1

The Institute presented an Honorary Degree of Doctor of Technology to Mom Rajawongse Kukrit Pramoj, former Prime Minister of Thailand, in recognition of "outstanding contribution to knowledge and understanding of socio-cultural issues and thus to the education and development of Thailand and the region."

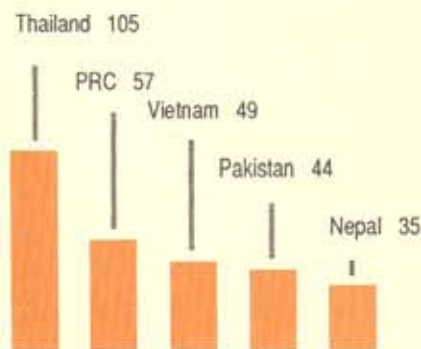
## STUDENTS AND ALUMNI

Average Student Enrolment (1993-94): 1071

Largest groups of graduates by field of study: human settlements development (57 graduates), management (57), agricultural and food engineering (53), computer science (47), geotechnical and transportation engineering (46), and industrial engineering and management (41)

Total Alumni (1961-1994): 7050

The five largest groups of graduates in 1994 are from



The five largest groups of alumni (1961- 1994) are from

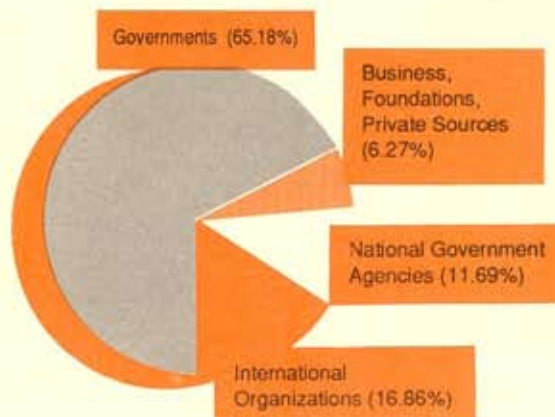


## PARTNERSHIPS AND COLLABORATIONS

Total Contributions Received FY 1993-94 :  
Baht 655,124,000

Largest partnership renewed in FY 1993-94:  
Collaboration with the Danish International Development Assistance, valued at over US\$11 million for the period 1994-99

Contributions received in FY1993-94 by sector (% of total contributions received)



Three largest donor governments in FY 1992-93 and FY 1993-94 (% of total contributions received)





## PRESIDENT'S MESSAGE

By the conventional measure of academic institutional progress, student numbers, 1994 was a year of accelerated growth. Applications were up 10% and admissions up 9.5% on 1993. However, due to a variety of causes, total cash and kind contributions to the Institute in financial year 1993-94 were only 1% up on the preceding twelve months (although 8% up on 1991-92). These two sets of figures point to the successful endeavors of the Institute over the year to improve the cost effectiveness of its activities through a period of general recession in major donor countries.

A significant factor in this cost effectiveness strategy has been constraint in making personnel appointments (teaching and non-teaching) in the four new schools. These are now well established and looking to the future through the construction of School Strategic Plans based on the Institute Mission and the objectives of the restructuring: divisions to schools.

The calendar year 1994 saw a number of what might be called "geographical firsts". As indicated last year, the AIT Center in Vietnam was inaugurated on 17 February. Contact was established with four of the six Asian Newly Independent States of the former Soviet Union, and students from that region are now enrolled in the Institute. The Aquaculture Outreach Program established its first office in Cambodia, while the Continuing Education Center delivered its first in a series of short courses for human resource development in that country, under the sponsorship of the Swedish International Development Authority. Incidentally at the year end, there were 20 Cambodian students registered on the full degree programs of the Institute. Two special students from the Embassy of the Democratic People's Republic of Korea came to the Institute for tuition in English and Computer Applications: I hope the first of a cohort of degree students from North Korea.

In our academic portfolio new ventures included Biotechnology (Bioprocess Engineering), Infrastructure Planning and Management, Urban Environmental Management, International Business and Electrical Power Systems Management. In all 71 new courses have been introduced as a consequence of these developments and the curricula revisions in the Schools. Concomitant with this, 78 courses have been deleted either through obsolescence or as part of the drive to improve the cost effectiveness of the academic programs.

During the year the Institute appointed Professor Pisidhi Karasudhi to the position of Vice President for Development and Professor Robert Stueart as Director of the Library and Regional Documentation Center. We wish them well in these posts of great Institute-wide significance, and extend the salutation to the many others who joined our faculty and staff over the year. A special event during 1994 was the award of an Honorary Degree to M.R. Kukrit Pramoj, former Prime Minister of Thailand, in recognition of his political and cultural contributions to our host country.



*Left: The new Vice President for Development, Prof. Pisidhi Karasudhi, center, with President North and Prof. Ricardo Pama, Vice President for Academic Affairs.*



*Above right: Honorary Degree recipient M. R. Kukrit Pramoj. Left: Inauguration of the AIT Center in Vietnam presided over by H.E. Mr. Mauri Eggert, Finnish Minister for Development Cooperation, H.E. Prof. Pham Minh Hac, First Vice Minister of Education and Training of the Government of SR Vietnam, and President North.*

As so often in the past, considerable attention has been paid to the question of the sustainability and long term future of the Institute. Diminution in developed country aid to Asia is inevitable as the countries of the region become more prosperous and as donor nations experience cycles of recession. The heavy dependence of the Institute on aid donations is being reduced through development of partnership activities, with aid agency regional projects for less developed countries on the one hand, and with the educational systems of more developed countries on the other. The days when North America and Europe provided the bulk of AIT finance have gone, and two Asian nations now head the list of donors to the Institute. While change seems slow if examined on a month to year time scale, it is very apparent when considered over decades. I am confident, therefore, that the Institute can change as the world changes, and build a stable long term future as a lead post-graduate institution in the region. The Institute is successful, as I am sure readers of this report will agree. For this I want to express my appreciation of all the endeavors of my colleagues in the Institute, as well as of trustees, alumni, donors and many other supporters.

A handwritten signature in dark ink, appearing to read "Robert Stueart".



## ACADEMIC AFFAIRS

### ACADEMIC INITIATIVES

#### 1995 Course Portfolio

Curricular reform continued through 1994 to accommodate changes brought about by the amalgamation of the former academic divisions into four schools in 1993. Thirty fields of study have been selected for the Institute's 1995 course portfolio.

Courses in the information management field of study will be offered starting in May 1995, while infrastructure planning and management will admit its first students in September 1995. Under discussion is the development of new fields of study in pulp and

paper technology, atmospheric sciences and genetic engineering.

Seven new fields of study will be offered in the 1995 program of the AIT Schools. These are briefly described here.

#### *School of Environment, Resources and Development*

##### **Bioprocess Technology**

Bioprocess technology is directed towards applications of biodisciplines and process engineering in food production and waste management. The courses cover biotechnology, microbiology, biochemistry, bioreactors, transport phenomena, and bioprocess engineering and control.

##### **Electric Power Systems Management (EPSM)**

EPSM addresses the need for training in state-of-the art knowledge and technology to improve the efficiency of power utilities and maintain their safety and the quality of supplied power. It is intended for managers and personnel of power utilities.

##### **Urban Development Planning and Environmental Management**

This field of study focuses on environmentally-sound urban growth and development, conservation and protection of urban environments, prevention of environmental deterioration and hazards, evaluation and mitigation of impacts of urbanization on urban environments, and monitoring of changes in urban environments.

*Below left: Prof. Willem F. Stevens (standing) has been seconded by the John F. Kennedy Foundation (Thailand) and Finance One Public Co. Ltd. to coordinate teaching and research in bioprocess technology. He joined AIT from the Netherlands Organization for Applied Scientific Research TNO.*

##### **Environmental Remote Sensing and Geoinformation for Development**

The theoretical component of this field of study concentrates on scientific analysis of remote sensing and geoinformation, emphasizing methodology and algorithm development, as well as studying the physics of electromagnetic wave propagation and interaction mechanisms with natural objects. Practical training is provided in the use of remote sensing and GIS techniques in environmental monitoring, atmospheric/global climate studies, energy conservation, and natural resources mapping.



*Above: Training in state-of-the art technology for power utilities is provided in the new field of study in electric power systems management.*



*Above: Students on field work apply a global navigation system (GPS) technique to locate geographic positions.*



## Academic Affairs

### School of Management

#### International Business

The distinct and irreversible globalization of business has created a demand for global managers who are knowledgeable of varied forms of international business relationships, including multinational corporations or subsidiaries, global networks, joint ventures and alliances, and so on. International business as a second field of study in the School of Management is a natural extension to the first field, management of technology. A major aspect of international business is cross-cultural management.



*Above photos: Infrastructure-related specializations are offered by the field of study in infrastructure planning and management, with minor concentrations in decision analysis, systems modeling, mathematical modeling and statistical analysis.*

### School of Civil Engineering

#### Infrastructure Planning and Management

Balancing the needs of the built environment with the preservation of the natural environment requires careful study of environmental systems and other relevant areas. This field of study provides training in integrative disciplines in large scale planning and development of complex infrastructure.



### School of Advanced Technologies

#### Information Management

The program responds to four basic challenges confronting organizations today: planning effective use of information and communication technologies, developing corporate and government policies to maximize the benefits resulting from the use of these technologies, improving strategic management of information resources in business, government and non-profit organizations, and increasing the productivity and creativity of managers and executives who work with information resources.

*Below: The interdisciplinary focus of information management covers strategic information management, computer and telecommunications technologies, and use of information as a resource.*



## ACADEMIC INITIATIVES

### Promoting Research

The Institute's reformed curricula, which re-emphasize commitment both to development research and region-oriented applied technological research, further strengthen the Institute's research policy and activities. Of the 226 sponsored research projects undertaken in 1994, a great number were completed within the year. Depending on their duration, certain projects initiated in

1994 will be continued through 1995 and some years thereafter.

Changes in the Institute's research pursuits are expected following the creation of the position of Director for Research Promotion and the appointment of AIT faculty Dr. Giap Van Dang to the post.

In the Schools, the Deans exercise major responsibility for research activi-

ties carried out by their faculty, staff and students.

The Institute's research activities are reported in the Annual Report on Research produced by the Office of the Vice President for Academic Affairs.

Continuing education activities of the four Schools totalled 166 compared with 163 in 1993.



## TRENDS AND DEVELOPMENTS

### Student Application and Enrolment Pattern

#### Applications

Student applications in 1994 were the largest ever received by the Institute. However, the overall application trend has not gone much higher than the 3000 mark reached in 1990.

Application numbers are influenced by changes in national and regional circumstances, demand for specializations, scholarship availability (including targeted support for particular nationality groups), and the number of students who take partial or full responsibility for their study costs.

In 1994, the largest number of applications came from Thailand, followed by India, Nepal, the People's Republic of China (PRC), Bangladesh, Vietnam and Pakistan. In 1993 PRC and India topped the list.

#### Enrolment

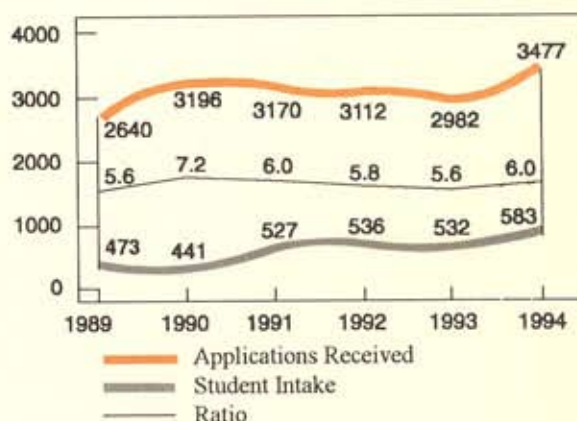
Average enrolment in the degree-awarding units over the three terms in 1994 showed an increase of some 7 per cent from 1993. Since 1985, average enrolment has risen every year by 80 percent over the whole period. Around half of the increase is accounted for by new subject areas namely, telecommunications, management, natural resources studies, and irrigation engineering and management

Enrolment in the Doctoral program, reaching its highest proportion at 15.7 per cent of the total enrolment in the September 1994 term, remained well below the 20 per cent target.

Enrolment in the Master's program increased by only two per cent over 1993 and 1994, suggesting a need for close monitoring.

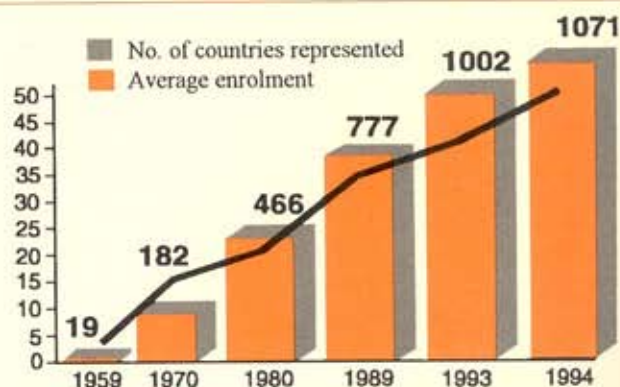
Female enrolment was maintained at 22.4 per cent of the total enrolment, with sustained increases seen in the Schools of Environment, Resources and Development, and Management.

Application and Student Intake Pattern, 1989-1994\*



\*For Doctoral, Master's, Diploma and Certificate Programs.

Student Enrolment 1959-1994



1994 Student Enrolment

Term	Schools	Centers*	CLET
Jan	1013	30	8
May	1001	30	16
Sept	1029	22	29
Average	1014	27	18

\* Program in Computer Applications Development (PCAD) and Remote Sensing, not including Talkbase Program.



## Academic Affairs

### 1994 Student Enrolment by Country

	Jan	May	Sept		Jan	May	Sept
Austria			1	Mongolia	3	6	3
Bangladesh	68	68	77	Myanmar	28	26	25
Belgium		1	3	Nepal	78	78	65
Bhutan	17	6	2	Netherlands	3	2	2
Bolivia	1	1	1	Nigeria	1	1	1
Brunei		4		Norway			4
Cambodia	9	21	24	Pakistan	75	67	66
Canada	2	3	5	PNG	3	5	2
Chinese Taipei	47	30	38	Philippines	54	51	54
Denmark	2		1	PRC	101	95	89
Finland	2	2	1	Sri Lanka	51	49	46
France	1	2	5	Sweden	3	1	3
Germany	1	2	2	Switzerland	1	1	1
Hong Kong	2	2	2	Thailand	248	242	274
India	58	51	52	Tonga	1	2	
Indonesia	52	60	64	USA	5	4	2
Japan	3	1	1	Vanuatu		1	
Kenya	3	2	2	Vietnam	94	122	119
ROK	10	14	13	Stateless	1	1	
Laos	8	7	21				
Luxembourg	1			<b>Total*</b>	<b>1051</b>	<b>1047</b>	<b>1080</b>
Malaysia	13	15	8				
Maldives	1	1	1				

*\*Not including Pre-Master's English Program*

### 1994 Student Enrolment by School

	Jan	May	Sept
<b>School of Advanced Technologies</b>			
CS	69	103	103
IEM	48	85	85
TC	28	53	53
<b>School of Civil Engineering</b>			
GTE	95	53	89
IREM	19	19	15
SEC	81	46	82
WRE	30	31	37
<b>School of Environment, Resources and Development</b>			
AFE	133	131	85
ET	69	72	37
EE	89	53	55
HSD	126	123	106
NR	61	66	29
<b>School of Management</b>			
	122	111	165
<b>Others*</b>			
PCAD	43	55	88
Remote Sensing	30	29	
Pre-Master's English		1	22
Bridging Program	15	8	12
	8	16	29
<b>Total</b>	<b>1066</b>	<b>1055</b>	<b>1092</b>

*\*Special Program and Certificate students.*

### 1994 Master's and Doctoral Enrolment

Doctoral	Jan	May	Sept	Master's	Jan	May	Sept
D.Eng.	70	69	71	M.Eng.	398	399	413
D.Tech.Sc.	39	41	42	M.Sc.	307	297	222
Ph.D.	33	37	34	MBA	112	99	159
	142	147	147		817	795	789

	Jan	May	Sept
<b>Total No. of Degree Students</b>	959	942	936
<b>% Doctoral Students</b>	14.8	15.6	15.7

### Scholarships

Counterbalancing the continuing downward trend in scholarship funds granted to the Institute for its own nominees or internal scholars was the increasing number of external scholarships. In September 1994 donor-nominated candidates numbered 245, rising from the September 1993 figure of 193. The number of students entering with sponsorships they had obtained for themselves (also known as externally-supported students), was significantly up at 274, compared with 159 in 1993.

A steady increase was observed in the number of self-supporting students, from 30 in 1992 to 49 in 1993 and 80 in 1994. However, the 1994 figure included students on the new partial scholarship scheme, which offers tuition fee waivers after two terms.

## Academic Affairs

### COLLABORATIONS

#### PAKISTAN

Collaboration with the Islamic Commerce Educational Society was further consolidated in 1994. Last year, 29 self-supporting students from the Punjab College of Business Administration (PCBA) joined the MBA program at the School of Management. The first students from the Punjab Institute of Computer Science enrolled in PCAD, as part of their program at the new Institute. Some of the students may later join the Master's program in computer science at AIT.

#### LAOS AND CAMBODIA

Special education and training programs are being held at AIT and in national institutions in Cambodia, Laos and Vietnam under the AIT-SIDA Environment Program. These include an outreach program to promote aquaculture using on-farm and on-station research, and organizational and capacity building training for the teaching faculty from local universities.

#### THAILAND

Partnerships with the public and private sectors were further pursued. AIT and the Ministry of University Affairs (MUA) are collaborating in the MUA's faculty development and recruitment program. The program has provided opportunities for AIT to assist Thai provincial universities.

The John F. Kennedy (Thailand) Foundation and Finance One Co., Ltd. is supporting a professorship in bioprocess technology, enabling Prof. Willem Stevens to lead the development of this important new field.

#### INDONESIA

AIT, as a training institution for eight provincial universities under an Asian Development Bank loan to Indonesia, will provide faculty development support to Indonesian universities.

#### PHILIPPINES

Discussions are continuing for the opening of a project office in Baguio City for the School of Environment, Resources and Development, adding to the School's aquaculture outreach bases in Laos and Cambodia.

#### VIETNAM

##### Hanoi

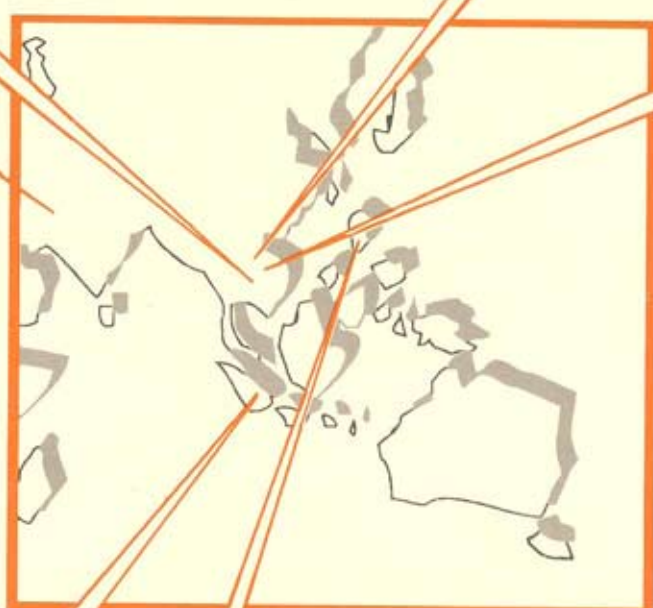
The AIT Center in Vietnam was inaugurated in February, marking a new phase in AIT's commitment to the technological advancement of the Asian region.

An academic program in industrial engineering and manufacturing systems engineering, leading to a postgraduate diploma degree, is expected to start in 1995 with financial support from the Belgian Government. The establishment of a postgraduate program in environmental and natural resource studies is being discussed with the French Agency for Remote Sensing Development.

##### Ho Chi Minh City

31 certificate graduates from the Swiss-AIT Vietnam Management Development Program underwent a further three-term study at the School of Management to complete their MBA degree.

The SAV program also runs short seminars for local business executives and advises on the MBA program due to open in 1995 at the National University of Technology and the National Economics University.





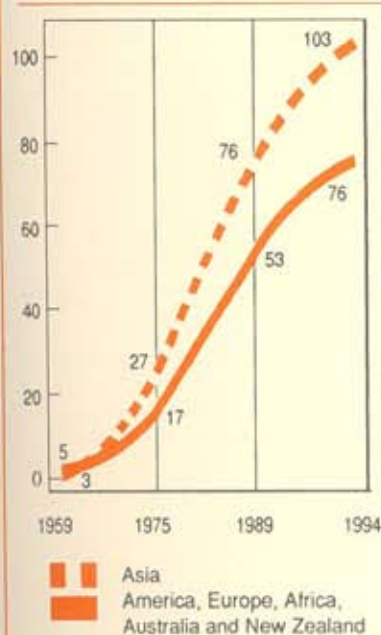
## Academic Affairs

### FACULTY

The AIT Faculty roster (as of November 1994) consisted of 22 visiting members, 34 associated members, 19 affiliated members, and full-time longer-term members comprising 79 direct-hire and 52 seconded Faculty. The proportion of seconded Faculty, at 40 per cent, was lower than the 1993 figure of 46 per cent and well below the 50 per cent traditionally considered appropriate for the Institute's academic operations.

The slight increase in faculty numbers in 1994 was accounted for by rising student enrolment in the School of Management and in the newly-established fields of study in electric power systems management, bioprocess technology, information management, infrastructure planning and management, environmental remote sensing and geo-information for development.

**Regional Trend in Faculty Recruitment 1959-1994**



**AIT Faculty by Country 1959-1994**

Country	1959	1975	1989	1994
<b>ASIA</b>				
Bangladesh		1	1	5
Cambodia		1		
Chinese Taipei		2		1
India		2	19	18
Indonesia			1	1
Israel		1		
Japan		4	11	13
Korea		1	2	3
Malaysia			1	
Myanmar		1		1
Nepal			3	5
Pakistan			2	1
PRC				3
Philippines		1	4	4
Sri Lanka		2	8	8
Thailand	3	11	22	36
Vietnam			2	4
<i>Sub-total</i>	3	27	76	103
<b>OTHER REGIONS</b>				
Australia		1	2	3
Austria				1
Belgium			2	4
Bulgaria				1
Canada			5	7
Denmark		1	3	3
Finland				3
France			8	12
Germany			8	7
Italy			1	
The Netherlands		1	2	2
New Zealand				1
Nigeria				1
Norway			1	2
Sweden				3
Switzerland		1	1	3
UK		11	10	12
USA	5	2	8	11
<i>Sub-total</i>	5	17	53	76
<b>Total</b>	<b>8</b>	<b>44</b>	<b>129</b>	<b>179</b>

*Note : Excluding a few faculty from Poland and Portugal*

**Faculty and Staff Secondment FY 1993-1994**

Country/Organization	Man Months
<b>Governments</b>	
Canada	61.5
Chinese Taipei	12.0
Finland	42.0
India	14.5
Japan	143.0
Korea	16.5
Norway	24.0
PRC	25.5
Sweden	13.0
Switzerland	24.0
USA	36.0
<b>European Community</b>	
Belgium	48.0
CEC	24.5
Denmark	37.0
France	94.5
Germany	73.5
UK	64.0
<i>Sub-total</i>	753.5
<b>International Organizations</b>	
ADB	11.0
CIP	11.5
ESA	12.0
IUCN	12.0
UNEP	12.0
<i>Sub-total</i>	58.5
<b>Business, Industries and Others</b>	
	37.5
<b>Total</b>	<b>849.5</b>

## Academic Affairs

### GRADUATION

The Institute ensures the quality of its graduates by maintaining a high admission criteria, close monitoring of the students' progress and observing a strict probational system. In 1994, the Institute awarded degrees to 514 students, compared with 466 in 1993.

The three graduation ceremonies in 1994 brought the total number of AIT alumni to 7050 from 46 countries in Asia and other regions.



### 1994 GRADUATION RECORD

#### by Degree

	Apr	Aug	Dec	Total
D. Eng.	4	3	7	14
D.Tech.Sc.	3	3	1	7
Ph.D.		3	2	5
M.Eng.	86	86	82	254
M.Sc.	34	78	62	174
MBA	38		18	56
Dip.AIT		2	2	4

#### by Country

	Apr	Aug	Dec	Total
Bangladesh	7	14	7	28
Bhutan		1		1
Cambodia		2	1	3
Chinese Taipei	23	2	4	29
Finland		1		1
India	9	11	11	31
Indonesia	4	7	17	28
Japan	1			1
ROK	2	2		4
Kenya	1			1
Laos	2		3	5
Myanmar	6	6	5	17
Mongolia		1		1
Malaysia	4	2		6
Nepal	5	20	9	34
Philippines	9	12	11	32
Pakistan	11	11	22	44
Papua New Guinea		1	1	2
PRC	14	24	19	57
Sri Lanka	12	9	10	31
Thailand	41	20	44	105
Tonga		1		1
USA		1		1
Vietnam	14	25	10	49
Stateless		1		1

#### by Program

	Apr	Aug	Dec	Total
<b>School of Advanced Technologies</b>				
CS	3		44	47
IEM	1	1	39	41
TC		1	25	26
<b>School of Civil Engineering</b>				
GTE	42	3	1	46
IEM	1	17	1	19
SEC	36			36
WRE	1	16	2	19
<b>School of Environment, Resources and Development</b>				
AFE	1	47	5	53
EE	37		1	38
ET		35	1	36
HSD	3	17	37	57
NR	2	37		39
<b>School of Management</b>				
	38	1	18	57



## Academic Affairs

### GRADUATION AWARDS

**TIMKENDALL MEMORIAL PRIZE**, in memory of the late AIT Trustee Mr. R. M. Kendall.

**KEIDANREN AWARD** presented to the most outstanding female graduate.

**JAMES A. LINEN III MEMORIAL PRIZE**, in memory of the late Mr. James A. Linen, a Charter Founding Member and Life Member of the Board of Trustees.

**HISAMATSU PRIZE**, presented by Prof. Yoshihiro Hisamatsu, former Dean of the Faculty of Engineering, University of Tokyo, and Technology Adviser for Nisshin Steel Co. Ltd., Japan.

**ROBERT B. BANKS PRIZE**, named after former AIT President Robert B. Banks and awarded for the first time in 1994.

**CHIN FUNG KEE PRIZE**, in memory of the late Prof. Chin Fung Kee, former Vice-Chancellor, University of Malaya, and past President of the Southeast Asian Geotechnical Society.

**BARBARA AND JOHN HUGH JONES PRIZE**, presented by former AIT Vice President for Academic Affairs, Prof. John Hugh Jones and his wife.

**SUKHUM NAVAPAN PRIZE**, presented by AIT Trustee Mr. Sukhum Navapan.

**MAHESH VARMA PRIZE**, established from funds provided by Prof. Mahesh Varma.

**TELECOM-FINLAND PRIZE** for the Telecommunications Master's program.

**Y.Y. KISHIDA PRIZE**, established by Mr. Yoshisuke Kishida, owner of Shin Norinsha Co., Tokyo, in memory of his son, Yoshisuke.

#### April

Mr. Yulvian Nursalim  
(SOM) Indonesia

Presented in April as the  
**YOHEI MIMURA PRIZE** to  
Ms. Josanna Maribeth W. Dy  
(SOM) Philippines

Mr. H.M. Sunil  
Munasinghe  
(SEC) Sri Lanka

Mr. Rajeev Goel  
(EE) India

Mr. Tan Yean Chin  
(GTE) Malaysia

Mr. Debashish Bhattacharjee  
(GTE) India

Mr. Jason Lim  
(SEC) Indonesia

#### August

Mr. Bui Duy Thanh  
(ET) Vietnam

Presented in August as the  
**AKIO MORITA PRIZE** to  
Mrs. Ujala Manandhar  
(AFE) Nepal

Mr. Dushmanta Dutta  
(WRE) India

Mr. Surya Raj Acharya  
(NR) Nepal

Mr. Md. Mainuddin  
(IREM) Bangladesh

Mr. Nguyen Ba Quang  
(AFE) Vietnam

#### December

Mr. Hari Kumar Pradhan  
(HSD) Nepal

Presented in December as  
the **EISHIRO SAITO PRIZE** to  
Ms. Elia Oey  
(IEM) Indonesia

Mr. G.R.M. Sudhakara Rao  
(CS) India

Mr. Janevit Siriassakul  
(IEM) Thailand

Mr. Nguyen Viet Trung  
(TC) Vietnam

## PARTNERSHIPS AND COLLABORATIONS

### DEVELOPMENT HIGHLIGHTS in FY 1993-94

#### Collaborations renewed

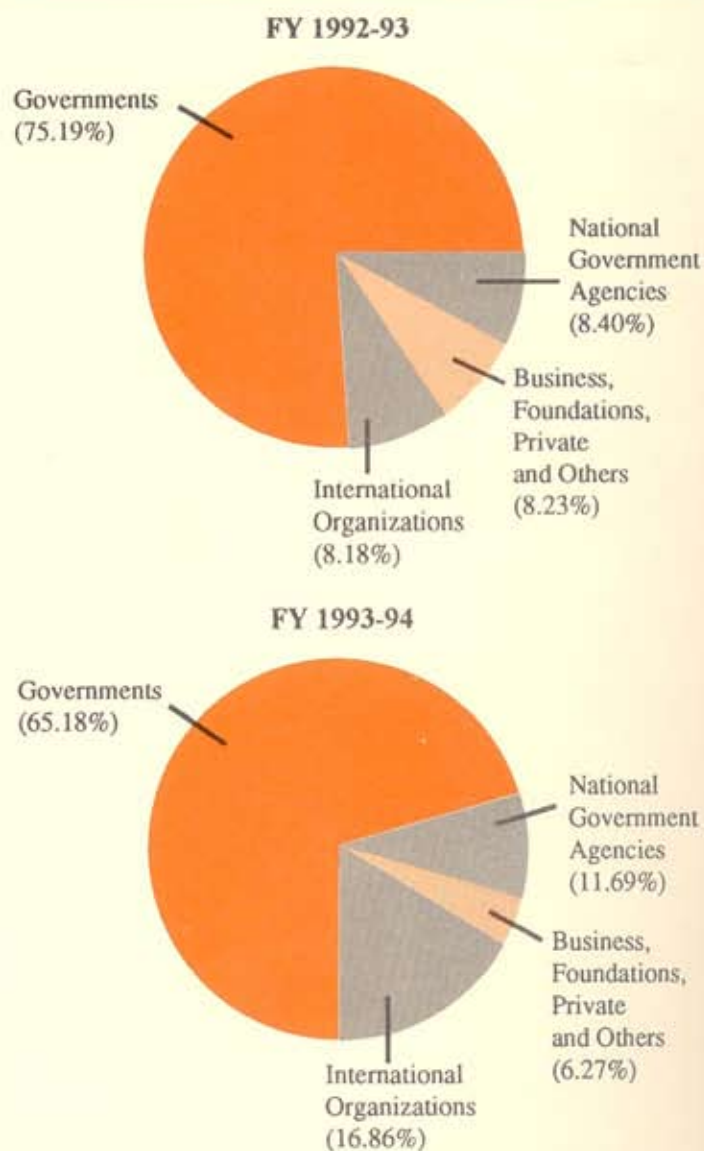
A total of 18 collaborations were renewed by the Development Office in Fiscal Year 1993-94, 14 of these being with governments. The largest long-term renewal was signed with the Danish International Development Assistance (Danida), in support of a comprehensive grant package valued at over 11 million US dollars for a five-year period from 1994 to 1999.

Ranking second largest was the Institute's collaboration with the Swedish International Development Authority (SIDA), providing support of over 4 million US dollars for the period 1993 to 1995. The collaboration has been extended to FY 1995-1996.

Other major renewals achieved in FY 1993-94 were those signed with Japan, Germany, France, Chinese Taipei, and the European Commission.

Three major renewals came into effect after the 1993-94 Fiscal Year, as follows: with The Netherlands, valued at over 3 million US dollars, with the Government of Belgium, valued at over 2.5 million US dollars, and with the United Kingdom, valued at 674,000 US dollars.

#### Total Contributions Received By Sector





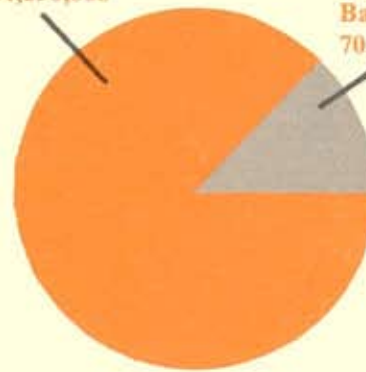
## Partnerships and Collaborations

### Total Contributions Received FY 1993-94 ( '000)

	Cash	Kind
Scholarships	257,809	
Research Projects	154,812	
Continuing Education	84,157	
Capital Grant	11,497	
Equipment and Books	13,699	12,721
Endowment Fund	315	
Faculty/Staff Secondment	30,450	57,713
Operating Grant	31,453	
Local Currency Grant	498	
<i>Sub-total</i>	584,690	70,434
<b>Total</b>		<b>655,124</b>

Contributions in cash  
Baht 584,690,000

Contributions  
in kind  
Baht  
70,434,000



## FUTURE PROSPECTS

Significant prospects await the Institute in Fiscal Year 1994-95. The most prominent of these is the Royal Thai Government's imminent renewal of support, valued at 12.06 million US dollars for the period 1995-99.

The years ahead are challenging. Emerging and anticipated changes in the Institute's funding sources call attention to new partnerships, innovative fund raising projects and a new orientation for the Institute's marketing plan.

### **New Partnerships**

Development activities in Indochina and the Commonwealth of Independent States must be expanded. Japan is setting aside scholarships for CIS nationals. Other sources of scholarship support are certain organizations in the United States which have expressed interest in sponsoring third country training for students from this region. These opportunities will be explored in the near future.

Efforts to break new ground should continue. The Institute's current level of activities in the Lao PDR, Vietnam and Cambodia indicates that a lot more can be achieved. Opportunities to meet the urgent needs of these countries and to upgrade their university education should not be missed.

### **Fund-raising**

Fund-raising remains important for a multi donor-assisted institution like AIT. Philanthropic support will be sought and fund-raising campaigns targeted at well-known Asian philanthropists will be initiated.

Funding proposals and various forms of gift opportunities are being studied and will be marketed.

### **Marketing**

The Institute is undertaking steps to re-orient its marketing culture, making it strategic, opportunity-seeking and outward-looking. Heads of offices under the Vice President for Development are members of the Outreach Promotion and Coordination Committee, which has been given the task of defining and strengthening the Institute's promotional and marketing efforts. Serving on the OPCC are the recently-appointed Director for Research Promotion, the Directors of the Continuing Education Center and the Asian Disaster Preparedness Center, and the Coordinator for Media and Information Services.

## SUMMARY OF CONTRIBUTIONS (CASH AND KIND) FY 1993-94

### Governments

Australia	0.14
Austria	2.65
Brunei	0.13
Canada	3.76
People's Republic of China	0.30
Chinese Taipei	0.46
Finland	3.45
India	0.22
Japan	10.89
Republic of Korea	0.19
Malaysia	0.16
Nepal	0.04
New Zealand	0.35
Norway	2.66
Pakistan	0.05
Philippines	0.17
Sweden	9.14
Switzerland	1.51
Thailand	9.92
United States of America	1.70
European Community	
CEC	3.31
Belgium	0.96
Denmark	0.81
France	3.96
Germany	4.55
Netherlands	0.01
United Kingdom	3.68
<b>Sub-total</b>	<b>65.18</b>

### International Organizations

ADB	4.60
CIP	0.14
Commonwealth Secretariat	0.08
ESCAP	0.56
ESA	0.24
FAO	0.24
ILO	0.11
IUCN	0.39
Mekong Secretariat	0.16
SEAMES	0.11
UN	0.15
UNEP	7.45
UNCHS	0.14
UNDP	1.84
UNDRO	0.06
UNESCO	0.07
UNICEF	0.11
UNIDO	0.03
WHO	0.25
World Bank	0.13
<b>Sub-total</b>	<b>16.86</b>

### National Government Agencies

<i>Austria</i>	
Austrian Academy of Science	0.02
International Atomic Energy Agency	0.02
<i>Bangladesh</i>	
Crop Diversification Program	0.01
International Center for Diarrhoeal Disease Research	0.07
Northwest Fisheries Extension Project	0.02
<i>Belgium</i>	
Rijksuniversitair Centrum Antwerpen	0.05
<i>Bhutan</i>	
Ministry of Health and Education	0.05
SNV, Bhutan	0.01
<i>Brunei</i>	
Ministry of Development	0.01
<i>Botswana</i>	
University of Botswana	0.02
<i>Cambodia</i>	
Cambodia Development Resources Institute	0.02
<i>Canada</i>	
CUC	0.07
Canadian High Commission	0.04
IDRC	0.29
Ocean Institute of Canada	0.01
University of Calgary	0.02
<i>Denmark</i>	
Danish Hydraulic Institute	0.58
<i>Ethiopia</i>	
Institute of Agricultural Research	0.03
<i>Fiji</i>	
Forum Secretariat	0.02
Housing Authority	0.02
<i>Hong Kong</i>	
Auxiliary Medical Services	0.02
<i>Indonesia</i>	
Aquaculture Institute	0.01
Badan Pertanahn Nasional	1.74
Christian University	0.08
Eastern Indonesian University Development Project	0.04
Ketua Stmix Gunadarams	0.10
Ministry of Finance	0.05
Ministry of Health	0.03
Petra Christian University	0.06
Private Universities and Colleges	0.03
Second Higher Education Development Project	0.10
Tarumanagara University	0.03
University Atma Jaya, Yogyakarta	0.02
<i>Japan</i>	
Japanese Society of Soil Mechanics and Foundation Engineering	0.06
Ministry of Education and Culture	0.01
National Space Agency of Japan	0.02
<i>Kenya</i>	
Central Bank of Kenya	0.02
<i>Lao PDR</i>	
National Polytechnic Institute Project	0.01

### Malaysia

Civil Defense Dept.	0.01
Dewan Bandaraya Kuala Lumpur	0.02
Kelantan Islamic Religion Council	0.02
Ministry of Education	0.10
Ministry of Rural Development	0.01
RISDA, Headquarters	0.01
Selangor State Secretariat	0.03
University of Sains	0.01
<i>Nepal</i>	
Dept. of Forestry	0.01
Makalu Barun Conservation Project	0.01
Nepal Agricultural Development Bank	0.06
Nepal Red Cross Society	0.01
Nepal Restra Bank	0.02
<i>New Caledonia</i>	
South Pacific Commission	0.01
<i>Netherlands</i>	
Delft Hydraulic Laboratory	0.07
International Institute of Land	0.06
<i>Norway</i>	
University of Bergen	0.02
<i>Pakistan</i>	
Lahore University of Management Science	0.01
Punjab College of Business Administration	0.46
<i>Papua New Guinea</i>	
Dept. of Commerce and Industries	0.01
Dept. of Personnel Management Services	0.07
Dept. of Transport	0.03
<i>Philippines</i>	
Central Luzon State University	0.01
Dept. of Science and Technology	0.04
Energy Regulatory Board	0.05
Mandala Agricultural Development Cooperatives	0.04
Philippine School of Business Administration	0.02
<i>Seychelles (REP)</i>	
Ministry of Industry	0.01
<i>Singapore</i>	
HQ Civil Defence Force	0.01
<i>Sri Lanka</i>	
Agrarian Research and Training Institute	0.01
Central Bank of Sri Lanka	0.03
Central Environmental Authority	0.01
Ceylon Electricity Board	0.02
Development Finance Corp.	0.05
Diversified Agricultural Research Project	0.01
Forestry Planning Unit	0.01
Integrated Rural Development Project	0.08
Ministry of Health and Women's Affairs	0.02
Ministry of Home Affairs and Provincial Council	0.02



Ministry of Policy Planning and Implementation	0.09	AEDC Vietnam Ltd.	0.05	Smash, Paris, France	0.09
National Development Bank of Sri Lanka	0.02	B.P. International Ltd.	0.02	SNC Lavalin International	0.08
Southern Province Rural Development Project	0.03	Babcock Enterprise, France	0.05	Soletanche (Thailand) Ltd.	0.03
Sri Lanka Export Board	0.01	BES Engineering Corp.	0.08	South Asia Partnership, Nepal	0.01
<i>Sweden</i>		BIL Finger Berger (Thai) Construction Co. Ltd.	0.02	Taiwan Cement Corp.	0.01
Uppsala University	0.05	Ch. Kamchang Co., Ltd.	0.01	Telkom Malaysia	0.01
<i>Switzerland</i>		Charoen Pokphand Feedmill Co. Ltd.	0.01	Tenax Spa, Italy	0.04
Swiss Development Corp.	0.01	Chemonica International	0.01	Thai Bridgestone Co. Ltd.	0.01
<i>Thailand</i>		China Trust Commerical Bank	0.03	Thai-Laos Lignite Co. Ltd.	0.02
Airport Authority of Thailand	0.48	Chinese Petroleum Corp.	0.01	Thai Obayashi Corp. Ltd.	0.01
Bank of Agriculture and Agricultural Cooperatives	0.06	Civil Engineering Co. Ltd.	0.01	Thai Polyphosphate and Chemicals Co. Ltd.	0.01
Bank of Thailand	0.01	Du Pont (Thailand) Ltd.	0.01	Thaiwat Highway Engineering Co. Ltd.	0.01
CAT	0.05	Eclipse Co. Ltd.	0.01	Total Myanmar Exploration and Development	0.02
DTEC	0.68	Ecumenical Scholarship Program	0.09	Toyota Motors (Thailand) Co. Ltd.	0.01
EGAT	0.95	EDF International, France	0.11	Vianini-Thai Construction and Development Co. Ltd.	0.01
Huntra Rice Research Center	0.01	ERABA Corp.	0.05	YME Group, Vietnam	0.02
Kasetsart University	0.03	Ericsson Communications Thailand Ltd.	0.05		
MEA	0.04	Ericsson Telephone Corp. Far East	0.11	AIT Foundation Inc.	0.08
Ministry of Public Health	0.01	ETS Edgard Belge ET, CIE	0.02	Action Aid	0.02
MOSTE	0.09	Fuji Xerox Co. Ltd.	0.03	APFWLD	0.02
Naresuan University	0.02	Geo Asia Co. Ltd	0.04	Asia Foundation	0.04
NESDB	0.51	Geographides Institute	0.01	AEON Group Environmental Foundation, Japan	0.43
OCMRT	0.18	Geotechnic Thailand Ltd.	0.05	Bangladesh-German Technical Cooperation	0.06
Office of Environmental Policy and Planning	0.03	Geotechnical Engineering Industry Co. Ltd.	0.03	British High Commission, India	0.03
Petroleum Authority of Thailand	0.28	Geotechnics (Holland) BV	0.02	Care International	0.02
Pathum Thani Province	0.06	Grameen Bank, Bangladesh	0.02	Christian Children Fund, India	0.03
Rajamangala Institute of Technology	0.07	Ground Treatment Far East, Hong Kong	0.02	Innertap, Philippines	0.02
Royal Forestry Dept.	0.04	GTM Corp. Ltd.	0.02	Japan-Indonesia Science and Technology Forum	0.11
Royal Thai Air Force	0.01	Hatfield Consultants Ltd., Canada	0.07	John F. Kennedy Foundation of Thailand	0.24
Royal Thai Navy	0.20	I.G.S. Public Co. Ltd.	0.06	Jones, John Hugh Prof.	0.04
TOT	0.16	IMEX Engineering Co. Ltd.	0.01	Keidanren (CBCC)	0.49
Thammasat University	0.08	Japan Engineering Consultants Co.Ltd.	0.03	Kozai Club, Japan	0.07
<i>United Kingdom</i>		Kajima Corp., Japan	0.04	Laos-Swedish Forestry Program	0.03
Commonwealth Science Council	0.01	Kin Sun (Thailand) Co. Ltd.	0.01	Lert Sinn Foundation	0.08
UCLES	0.63	Marg Ltd., UK	0.09	Marden Family	0.01
University College of Swansea	0.04	Merlin Gerin Co. Ltd.	0.06	Mennonite Central Committee	0.03
<i>United States</i>		Mitsubishi Research Institute Inc.	0.05	PACT, Bangladesh	0.02
Academy for Educational Development	0.54	MMC Sithipol Motors Co. Ltd.	0.01	Pakistan-German Technology Training Center	0.07
Peace Corps	0.24	Motorola Malaysia Sdn. Bhd.	0.01	Population Council, Bangkok	0.02
University of Michigan	0.27	Mott MacDonald Hong Kong Ltd.	0.30	Redd-Barna, Cambodia	0.02
US Environmental Training Institute	0.04	Nathan Association Inc., Bangladesh	0.11	Soil and Fertilizer Society of Thailand	0.01
<i>Vietnam</i>		National Agriculture Co. Ltd.	0.01	Sweroad-Laos, PDR	0.02
Dau Tieng Irrigation Project	0.03	Nippon Koei Co. Ltd.	0.05	Sukumo Foundation	0.01
Hanoi Water Supply Program	0.05	Okuminisches Studien Werk E.V.	0.02	Technical Cooperation Facility	0.15
International Relationship Interforest	0.13	P. P. Center Co. Ltd.	0.04	Union Internationale de Telecom	0.03
Ministry of Health	0.04	P. T. Charoen Pokphand	0.01	Volunteer in Technology Assistance	0.03
NPI Project	0.01	P. T. Indonesia Nihon Seima	0.01	Winrock International	0.25
Petrovietnam	0.12	P. T. Pupuk Kalimantan Timur	0.02	Wise, Donald Prof.	0.02
		Pattaya Park Beach Hotel	0.05	World Vision Bangladesh	0.04
		Polyfelt Geosynthetics Sdn. Bhd.	0.31	World Wildlife Fund - Bhutan	0.02
		Rizal Commercial Banking Corp., Philippines	0.01	Others	0.50
		Sahaviriya OA Group, Thailand	0.01		
		San Miguel Foods, Inc.	0.02	Sub-Total	6.27
		SGS Stewart Project Management Services	0.02	TOTAL	100.00
		Siam Cement Co. Ltd.	0.05		
		Siam DHV Ltd.	0.15		
		Siam Nissan Automobile Co. Ltd.	0.01		
		Siam Tone Co. Ltd.	0.12		
		Sindhu Pulsirwong Consultant Co. Ltd.	0.04		
		Sino Geotechnology Corp. Inc.	0.01		
Sub-total	11.69				



# CENTRAL ADMINISTRATION

## REORGANIZATION

### Central Administration Functions

Significant payroll savings have resulted from placing purchasing and government relations functions under one manager. Security, which has been made a Physical Plant function, has improved as seen in the reduced incidence of internal thefts on campus.

A goal for 1995 is to improve housing services through system improvement and reorganization. The demand for housing should ease when construction of ST-9, a new 90-unit staff apartment complex, is completed. ST-9 is located west of ST-7 and ST-8.

Another central administration function that will be improved is inventory control, based on the recommendations of a working group under the Internal Auditor. It is anticipated that the inventory control function maybe transferred from the Physical Plant to the Finance Department.

## AUXILIARY SERVICES

The AIT Child Center offers primary education for the children of AIT faculty, staff and students.

The Child Center has become completely self-funding. Continued increase in student enrolment is expected to further strengthen the Center's financial resources.

Similarly recording an improved financial standing is the AIT Center, which has been enjoying an occupancy rate of over 70% in its guest accommodations since its expansion and renovation a few years back.



*Accommodation is available on campus for all students and a limited number of faculty and staff. The main dormitory area for students (right) comprises 400 single study-bedrooms. New dormitory/residential blocks for faculty, staff and students have been opened over the years to cope with the ever-increasing demand for on-campus housing.*



*Above: The age of admission to the AIT Child Center is five years and schooling is offered up to grade 4 (9 years old). A few children may be admitted to grade 5, if space is available. Children from 2 1/2 to 5 years of age attend the AIT play school, which offers a morning session for all children and an afternoon session for children aged 3 1/2 to 5.*



## Central Administration

### CAMPUS DEVELOPMENT

#### New Student Cafeteria

Planning for a new student cafeteria is underway. This will be located southwest of the Korea House. Construction funds will be derived from the Royal Thai Government's annual construction grant. Construction will start in early 1995 and is expected to last for ten months.

#### Chalerm Prakiat Building

Construction of the Chalerm Prakiat Building is at the final stage. The building will provide laboratory, classroom and office facilities for industrial engineering and manufacturing systems. It is expected to be ready for occupancy by January 1995.

An extension is being constructed and is expected to be ready by the end of 1995. Construction funds have been partly obtained from the Royal Thai Government's annual construction grant.



*Above: The Chalerm Prakiat Building, the Institute's most significant named gift, will be officially inaugurated in early 1996 to coincide with the completion of its extension. The Chalerm Prakiat Building is a gift from AIT Trustee Dr. Somsak Leeswadtrakul, owner and shareholder of business enterprises, SSP Group of Companies in Bangkok.*

#### Wind Tunnel Project

Design work for a wind tunnel and shelter, a major project in the Institute's structural engineering field of study, is underway and construction is scheduled to start in early 1995. Installation of the tunnel and equipment will follow. Construction funds will be obtained from the Royal Thai Government's annual construction grant and from an internal Institute loan. Equipment will be provided through a Japanese grant. The project will be located north of the Energy Park.

The wind tunnel is regarded as an indispensable tool for the study of many complex effects associated with wind flow.

#### Aquaculture Building

The Institute's Habitech Center is constructing an office building for the Aquaculture program. The two-storey, 400 sq. m. building is located near the AFE building.

The construction system used for the building was developed by the Habitech Center, which prefabricated the building components, such as concrete interlocking bricks, concrete joists, micro concrete floor pans and concrete stairs.



*Above: Construction of the Aquaculture building using prefabricated building components developed and produced by the Habitech Center. Some of the prefabricated components are similar to those used in the Habitech demonstration house (right).*





## ALUMNI AFFAIRS

### 1961-1993 ALUMNI TRACER STUDY

By conducting regular performance evaluation of its alumni, the Institute is able to monitor the effectiveness and relevance of its programs and to identify areas for improvement. As with previous studies, the 1993 Alumni Tracer Study, completed late last year, has a four-fold objective: update the AIT alumni record, determine the effectiveness of AIT programs of study, evaluate the impact of AIT alumni on the development of the region, and identify emerging needs in science and technology education in the region.

The 1993 survey covers alumni from 1961 to December 1993. The findings are culled from the response of 2310 alumni, from a total of 5951 questionnaires that were sent to 6537 alumni. The difference in questionnaire and total alumni figures was accounted for by the number of deceased alumni and alumni with unknown address.

#### *Employment*

Evident in the 1993 tracer study was the opening of new opportunities in the regional and international job markets for the AIT alumni. This trend attests to the high standard of an AIT education and the growing recognition of the AIT alumni's capability for creditable professional performance outside their home environments.

The study indicates that while the majority of alumni are working in their home countries, a growing number are in professional employment in other developing countries in the region. This emerging employment pattern is in harmony with the Institute's mission of service to the Asian and Pacific region.

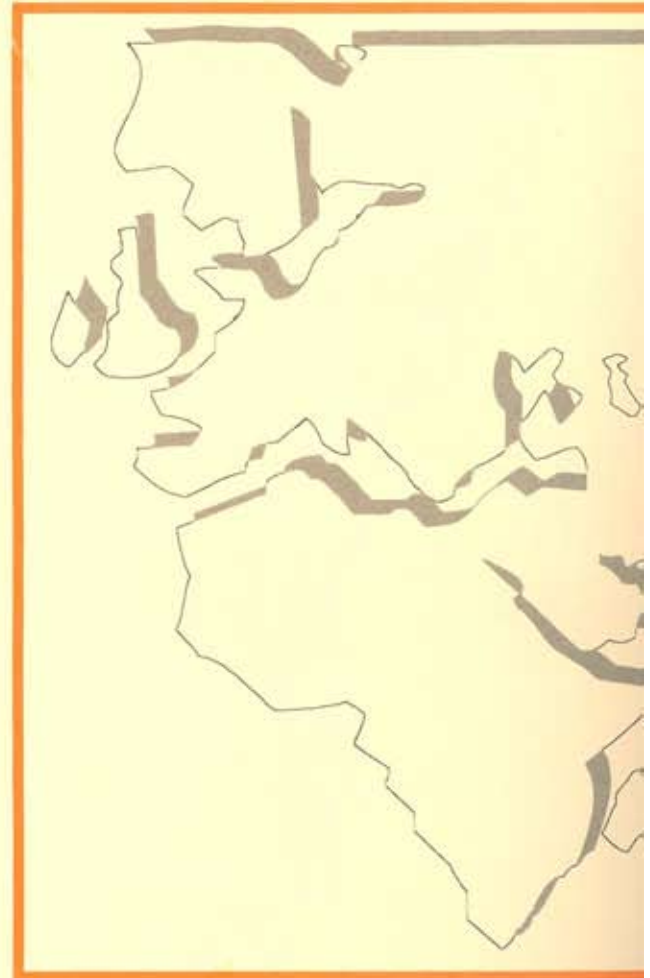
**Occupational fields:** In the main, AIT alumni are engaged in three major occupational fields: education (27.5%), private sector (25.9%), and government service (22.7%).

Alumni employment in government, state enterprises, and the private sector is concentrated in positions of a technical nature. Management was a principal aspect of alumni employment in NGOs and international organizations. Intimate involvement in research and development was cited by alumni holding middle management and professional staff positions.

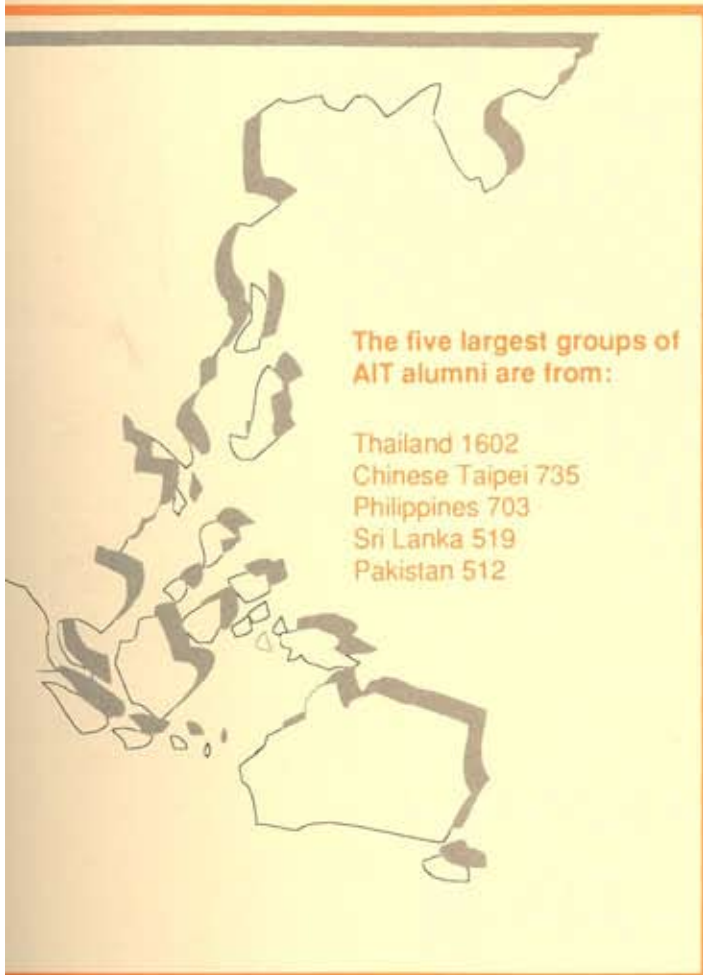
**Employment Opportunities.** The declining number of alumni returning to employment in the government and public enterprise sectors is an effect of the opening of more employment opportunities in the private sector, educational

institutions, NGOs, and international organizations. A growing number of alumni have gone into self-employment. These developments prove the growing marketability of AIT alumni in different sectors.

**Levels of Position.** As a general rule, the majority of senior alumni, notably graduates of community and regional development (CRD), have risen to senior management positions. CRD, precursor of the program in human settlements development, was established in 1974. A large number of graduates of structural engineering and environmental engineering are also in senior







management positions. Middle management and professional staff positions are common among alumni from 1981 to 1985.

Promotions and professional mobility in organizations were noted among graduates of industrial engineering and management, water resources engineering and structural engineering.

**Residence**

Closely related to place of employment is country of residence. Ninety per cent of the respondents live in Asia and the Pacific, with 79 per cent living in their home countries and 21 per cent in other countries in the region. The

number of AIT alumni residing in Asia and the Pacific has increased by 4% from the 1990 tracer study. Residence in North and South America has decreased by comparison.

**Further Studies**

Of the number of alumni attending further studies at the time of the survey, 14.5 per cent were pursuing a second Master's degree, while 47.9% were enrolled in Ph.D. programs. Some 4.4% were working towards post-doctoral qualifications. The largest numbers were enrolled in North American institutions (35.7%) and European universities (17.6%).

**ALUMNI DISTRIBUTION BY COUNTRY 1961-1994**

**Southeast Asia and Pacific**

1.	Brunei	9
2.	Cambodia	8
3.	Fiji	1
4.	Indonesia	359
5.	Laos	15
6.	Malaysia	264
7.	Maldives	1
8.	Myanmar	121
9.	Papua New Guinea	8
10.	Philippines	703
11.	Singapore	28
12.	Thailand	1602
13.	Tonga	1
14.	Vietnam	265

**South and West Asia**

1.	Afghanistan	26
2.	Bangladesh	457
3.	Bhutan	3
4.	Egypt	1
5.	India	490
6.	Iran	13
7.	Nepal	360
8.	Pakistan	512
9.	Sri Lanka	519
10.	Turkey	6

**East Asia**

1.	PRC	252
2.	Chinese Taipei	735
3.	Hong Kong	85
4.	Japan	52
5.	Republic of Korea	103
6.	Macao	7
7.	Mongolia	1

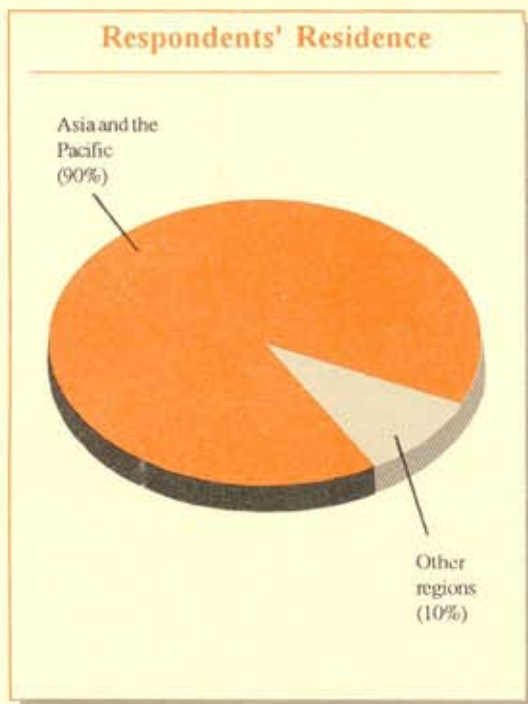
**North America, Europe and Africa**

1.	Belgium	1
2.	Canada	5
3.	Ethiopia	1
4.	Finland	2
5.	France	3
6.	Germany	1
7.	Ghana	2
8.	Honduras	1
9.	Kenya	1
10.	Malawi	3
11.	The Netherlands	1
12.	Sweden	1
13.	Tanzania	8
14.	UK	2
15.	USA	9

Stateless	2
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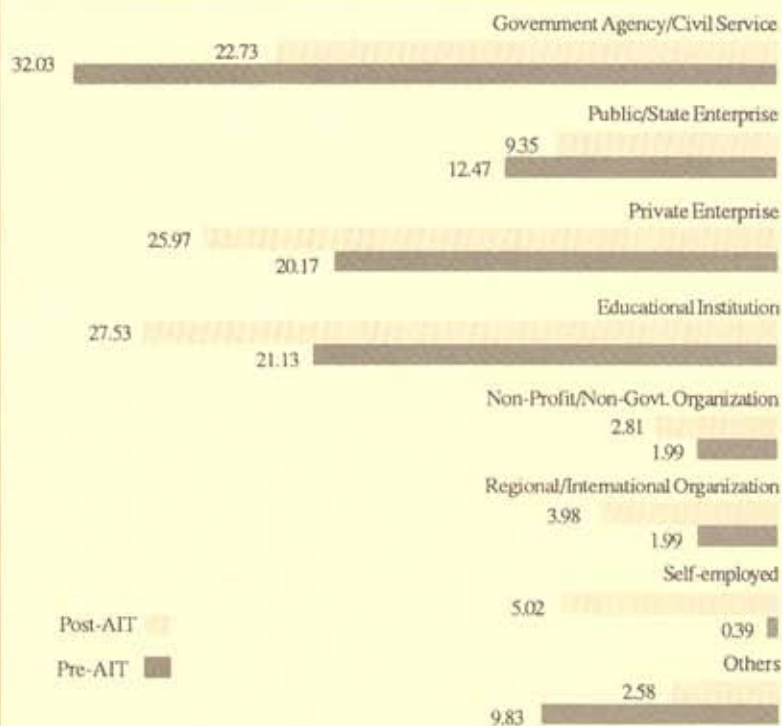
## Alumni Affairs

### Respondents' Residence



Source: 1993 Alumni Tracer Study

### Post-AIT and Pre-AIT Employment of Respondents (%)



## AIT ALUMNI ASSOCIATION

### 23rd Governing Board Meeting

Two major objectives - to generate financial support for AITAA activities and operations and to tap alumni expertise for special projects - guided activities carried out by the AIT Alumni Association (AITAA) in 1994.

These objectives were stressed at the 23rd Governing Board Meeting, held by AITAA on 1-4 June 1994 in Chinese Taipei under the auspices of the Alumni Chapter there.

Reiterating its support to AIT, the Association reported favorable alumni response to institutional marketing and student recruitment activities, as well as special projects carried out by some AITAA Chapters.

### On-going Activities

#### Endowment Fund

AITAA has launched a campaign to solicit 4 US dollars per member for the Association's Endowment Fund. Interest earned from the Fund supports AITAA operations and research grants.

#### Research Grants

Ten research grants, ranging from 8,000 to 15,000 Baht per recipient, were awarded in 1994.

To-date AITAA has received five named research grants. The 1994 donors were Mr. Subin Pinkayan (SEC '61), Chairman of SEATEC Group, who donated 25,000 Baht, and two institutions namely, UNEP-GRID, which gave 150,000 Baht, and Schema Konsult Inc., Philippines, which donated 15,000 Baht.

### Special Activities

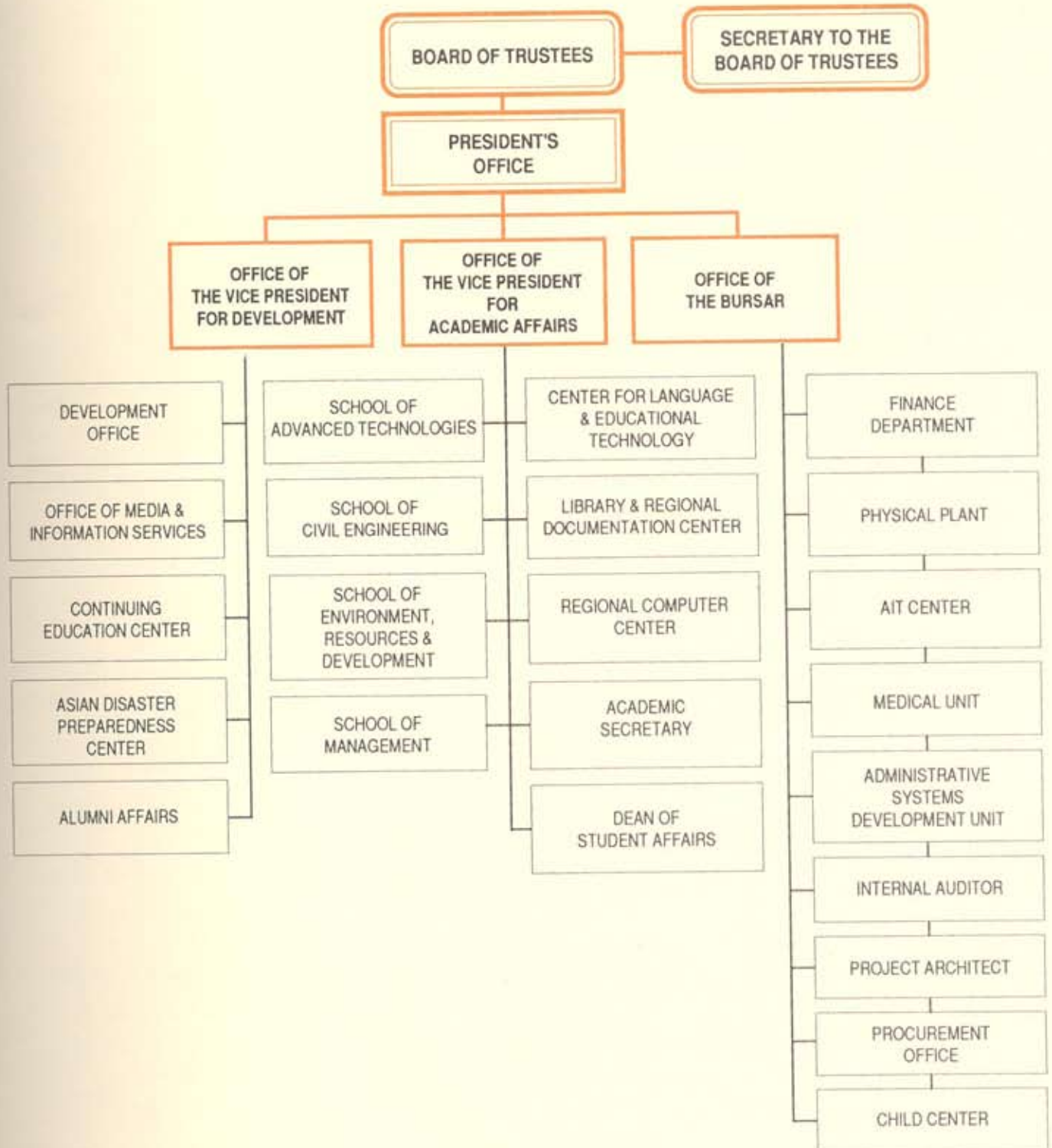
The nomination criteria and procedures for the Distinguished Alumni Award have been approved. Nominations have been received from AITAA Chapters in the Philippines and Chinese Taipei.

AITAA is planning to develop a database for its proposed AIT alumni consultancy service.

As a start to its proposed discussion series, AITAA held its first forum, *Advancing AIT: Image, Relevance and Excellence*, on 5 July 1994. On the panel were guest alumni speakers led by AITAA President Mrs. Chuanpit Dhamasiri (EE '68), Deputy Governor, Metropolitan Waterworks Authority of Thailand.



**ORGANIZATIONAL CHART OF THE  
ASIAN INSTITUTE OF TECHNOLOGY**



## 1994 BOARD OF TRUSTEES

- EC **H. E. Mr. C. Christian W. Adams** (1995)  
CMG  
Ambassador Extraordinary and Plenipotentiary  
The British Embassy  
Bangkok, Thailand
- SRC **Mr. Robert C. Bodden** (1995)  
President  
AIT Foundation, Inc.  
USA
- FC **Mr. Pin Chakkaphak** (1995)  
President and Director  
Finance One Public Company Limited  
Bangkok, Thailand
- Mr. Arthur Y. Chen** (1996)  
President  
Ret-Ser Engineering Agency  
Chinese Taipei
- Dr. Chow Chowkwanyun** (1995)  
Founder  
Education and Public Welfare Foundation  
Bangkok, Thailand
- Dr. Kim Chung-Gil** (1997)  
Chairperson  
Appeal Commission for Educators  
Ministry of Education  
Seoul, Korea
- EC **Dr. Saisuree Chutikul** (1996)  
Advisor (CIDA) on Women, Children, Youth, Education and Social Development  
Office of the Permanent Secretary  
Prime Minister's Office  
Royal Thai Government  
Bangkok, Thailand
- Prof. Dr. Hans Gunter Danielmeyer** (1997)  
Senior Vice President  
Corporate Research and Development Department  
Siemens AG  
Germany
- Mr. John Gunther Dean** (1995)  
Former US Ambassador to Thailand  
Paris, France
- EC **Mrs. Chuanpit Dhamasiri** (*Ex-officio*)  
PPC AITAA President  
Deputy Governor (Engineering)  
Metropolitan Waterworks Authority  
Bangkok, Thailand
- H. E. Mr. Willy Johan Fredriksen** (1996)  
Ambassador Extraordinary and Plenipotentiary  
The Royal Norwegian Embassy  
Bangkok, Thailand
- EC **Prof. D. W. George, AO** (1996)  
PPC *Vice Chairperson*  
SRC Former Vice-Chancellor  
University of Newcastle  
NSW, Australia
- HDC **H. E. Mr. Blaise Godet** (1996)  
Ambassador Extraordinary and Plenipotentiary  
The Embassy of Switzerland  
Bangkok, Thailand
- EC **H. E. Ms. Eva Heckscher** (1996)  
Ambassador Extraordinary and Plenipotentiary  
The Swedish Embassy  
Bangkok, Thailand
- Prof. Wilhelm Hill** (1996)  
Principal  
Institute for Economic Management  
Basel, Switzerland
- EC **The Hon. Cheng Hon-Kwan, OBE** (1996)  
Member  
Executive and Legislative Council  
Hong Kong
- Dr. John A. Hrones** (*Life Member*)  
Provost Emeritus  
Case Institute of Technology  
USA
- EC **Prof. Pisidhi Karasudhi** (*Ex-officio*)  
PPC Vice President for Development  
FC Asian Institute of Technology
- FRC **Prof. S. K. Khanna** (1996)  
Chairman  
All India Council for Technical Education  
New Delhi, India
- EC **Dr. Thanat Khoman** (1996)  
PPC *Chairman*  
HDC Former Deputy Prime Minister  
FC Royal Thai Government  
Bangkok, Thailand
- Mr. Kiyooki Kikuchi** (1996)  
Senior Advisor  
Matsushita Electric Industrial Co., Ltd.  
Tokyo, Japan
- Mr. Jeffrey L. S. Koo** (1995)  
Chairman and Chief Executive Officer  
China Trust Co., Ltd.  
Chinese Taipei
- EC **Prof. B. Krol** (1997)  
PPC Professor  
SRC University of Utrecht  
FRC Science of Food and Animal Origin Department  
The Netherlands
- H. E. Mr. Bernard Lauwaert** (1997)  
Ambassador Extraordinary and Plenipotentiary  
The Embassy of Belgium  
Bangkok, Thailand
- Dr. Nguyen Huu Le** (1996)  
Director, Global R & D Planning  
Bell-Northern Research Ltd.  
Ottawa, Canada
- SRC **Dr. Sang-Soo Lee** (1996)  
President  
Korea Advanced Institute of Science and Technology  
Seoul, Korea
- Dr. Somsak Leeswadtrakul** (1996)  
Owner and Shareholder of Business Enterprises  
SSP Group of Companies  
Bangkok, Thailand
- Dr. Ram Sharan Mahat** (1996)  
Vice Chairman  
National Planning Commission of Nepal  
Kathmandu, Nepal
- Mr. Mian Amer Mahmood** (1997)  
Chairman of the Punjab Group of Colleges  
Lahore, Pakistan
- Dr. Oscar B. Mapua** (*Life Member*)  
President  
Mapua Institute of Technology  
Manila, Philippines
- H. E. Mr. J. Gwyn Morgan** (1997)  
Ambassador-Head of Delegation  
Delegation of the Commission of the European Communities  
Bangkok, Thailand
- EC **Mr. Sukum Navapan** (1995)  
FC Chairman  
Navatane Group of Companies  
Bangkok, Thailand
- EC **Prof. Alastair M. North** (*Ex-officio*)  
PPC President  
HDC Asian Institute of Technology  
FC
- H. E. Mr. Manfred G. von Nostitz** (1997)  
Ambassador Extraordinary and Plenipotentiary  
The Canadian Embassy  
Bangkok, Thailand



- H. E. Mr. Takashi Onda (1997)  
Ambassador Extraordinary and  
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The Embassy of Japan  
Bangkok, Thailand
- EC Prof. Ricardo P. Pama (*Ex-officio*)  
PPC Vice President for Academic Affairs  
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- EC Mr. Anand Panyarachun (1996)  
Former Prime Minister of Thailand  
Royal Thai Government  
Bangkok, Thailand
- EC H.E. Baron Berthold von Pfften-  
Ambach (1997)  
FC Ambassador Extraordinary and  
Plenipotentiary  
The Embassy of Germany  
Bangkok, Thailand
- Mr. Earl N. Phillips, Jr. (1995)  
President  
First Factors Corporation  
North Carolina, USA
- PPC Dr. Wolf Preuss (1995)  
Deputy Director General (Asia)  
Federal Ministry for Economic  
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- H. E. Mr. Jorgen Reimers (1997)  
Ambassador Extraordinary and  
Plenipotentiary  
The Royal Danish Embassy  
Bangkok, Thailand
- EC H.E. Mr. Jacques Rummelhardt  
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PPC Ambassador Extraordinary and  
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- EC H.E. Mr. Eero Kalevi Salovaara  
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- PPC Dr. Noranit Setabutr (1995)  
Rector  
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- EC Prof. Hiroyoshi Shi-igai (1995)  
PPC Professor  
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- SRC Dr. Soedjatmiko (1996)  
Director  
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- Mr. Chatri Sophonpanich (1997)  
Executive Chairman of the Board  
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- SRC Mr. Jean-Marcel Soulier (1995)  
Chairman of the French Steering  
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- PPC Prof. Charas Suwanwela (1995)  
FC President  
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Bangkok, Thailand
- Mr. Yoshiro Takasaki (1997)  
Chairman  
Toyo Seikan Kaisha Ltd.  
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- Dr. Aran Thamano (1996)  
Permanent Secretary  
Ministry of Finance  
Royal Thai Government  
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- EC Dr. Vichai Tunsiri (1995)  
Secretary-General  
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- EC Dr. Phaichitr Uathavikul (1997)  
Chairman  
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Thailand Environment Institute  
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- EC Dr. Snoh Unakul (1997)  
Chairman  
The Bank of Asia Public Co. Ltd  
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- Dr. Puey Ungphakorn (*Life Member*,  
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Bank of Thailand  
London, UK
- FRC Prof. Zhong Lie Wang (1997)  
Director, Office of the ADCSC  
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- Prof. Dayantha Wijeyesekera  
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Vice Chancellor  
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Nugegoda, Sri Lanka
- Dr. Haydn Williams (1995)  
Former President  
Asia Foundation  
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- EC Prof. Yap Kioe-Sheng (*Ex-officio*)  
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EC Executive Committee  
SRC Student Relations Committee  
FC Finance Committee  
PPC Policy and Planning Committee  
HDC Honorary Degrees Committee  
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D.Sc., Aberdeen.

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### Kaew Nuaichawee

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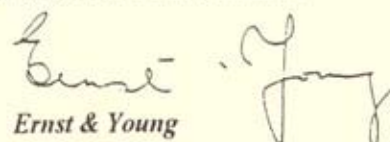
**Abbreviations****SAT School of Advanced Technologies**

CS	Computer Science
IEMSE	Industrial Engineering and Manufacturing Systems Engineering
IM	Information Management
TC	Telecommunications
<b>SCE School of Civil Engineering</b>	
CEM	Construction Engineering and Management
EAG	Engineering and Applied Geology
IPM	Infrastructure Planning and Management
IEM	Irrigation Engineering and Management
RCE	Riverine and Coastal Engineering
SE	Soil Engineering
STE	Structural Engineering
TE	Transportation Engineering
WRD	Water Resources Development
<b>SERD School of Environment, Resources and Development</b>	
AMM	Agricultural Machinery and Management
AS	Agricultural Systems
AQ	Aquaculture
PFPE	Postharvest and Food Process Engineering
EPP	Energy Planning and Policy
EPSM	Energy Power Systems Management
ET	Energy Technology
ETM	Environmental Technology and Management
WWE	Water and Wastewater Engineering
RRDP	Regional and Rural Development Planning
UDPEM	Urban Development Planning and Environmental Management
ERSGD	Environmental Remote Sensing and Geo-information for Development
RPM	Resource Planning and Management
GD	Gender and Development
BT	Bioprocess Technology
SOM	School of Management
CLET	Center for Language and Educational Technology
LRDC	Library and Regional Documentation Center

**TO THE BOARD OF TRUSTEES  
ASIAN INSTITUTE OF TECHNOLOGY**

We have examined the balance sheets of Asian Institute of Technology as at 30th June, 1994 and 1993, the statements of revenues and expenditures of unrestricted current fund and restricted fund-general and the related statements of changes in fund balances 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 aforementioned financial statements present fairly the financial position of Asian Institute of Technology as at 30th June, 1994 and 1993, the revenues and expenditures of unrestricted current fund and restricted fund-general and changes in fund balances for the years then ended, in conformity with generally accepted accounting principles appropriate for non-profit organisation as set out in Note 1 to the financial statements, applied on a consistent basis.

  
*Ernst & Young*  
Bangkok  
8 September 1994

**NOTE 1 -  
SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**1.1 Fund accounting**

In order to ensure observance of 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 activities of objects specified. Within each fund group, fund balances which are restricted by outside sources are so indicated and are distinguished from unrestricted fund allocated to specific purposes by action of the governing board. As for unrestricted fund, the governing board retains full control to use in achieving any of its institutional purposes.

Investments income are recognised as income in the unrestricted current fund except for endowments, general reserve and capital funds which are accounted for in the fund to which it is restricted.

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

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

**1.2 Accrual basis**

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

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

Contributions are recognised 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 unrestricted current fund and 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.

### 1.3 Contributions in kind

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

### 1.4 Inventories

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

### 1.5 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.

### 1.6 Foreign currencies

Exchange rates adopted:-

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

Assets and liabilities in foreign currency outstanding on  
the balance sheet date - at the rates ruling on  
the balance sheet dates.

Exchange gains and losses are recognised as revenue and expenditure and taken up in the statement of changes in fund balances.

## NOTE 2 - INVESTMENTS

	1994 BAHT	1993 BAHT
Time deposits with banks	163,450,375	151,049,058
Deposits with finance companies	236,766,952	273,641,523
	<u>400,217,327</u>	<u>424,690,581</u>

The investments of each fund as at 30th June, 1994 and 1993 are as follows:

	1994 BAHT	1993 BAHT
Unrestricted current fund	17,764,737	17,744,135
Restricted fund		
General	54,505,705	79,016,720
Endowment	63,061,047	61,743,108
General reserve	140,761,755	120,651,370
	258,328,507	261,411,198
Capital fund		
Liquid assets	46,515,062	60,746,536
Repairs and Maintenance reserve	2,883,127	1,952,182
	49,398,189	62,698,718
Sponsored program fund	28,114,612	61,749,707
Agency fund	46,611,282	21,086,823
	<u>400,217,327</u>	<u>424,690,581</u>

Time deposits with banks amounting to Baht 4.2 million (1993 : Baht 17 million) of the restricted general reserve fund has been pledged with a bank as a collateral against outstanding letter of guarantee issued by the bank (see Note 9).

## Appendix

### NOTE 3 - ADVANCE DUTIES AND TAXES

This represents advance duties and taxes 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 16th July, 1985. The refund of the advance is for non Thai faculty and staff and is subject to the annual government budget of the Government of Thailand.

The details of advance duties and taxes as at 30th June, 1994 and 1993 are as follows:

	1994 BAHT	1993 BAHT
Employees personal income tax	10,501,449	8,986,595
Import and tax duty		
-Automobile	577,799	1,330,024
-Wine and spirits	613,590	769,484
	<u>11,692,838</u>	<u>11,086,103</u>

### NOTE 4 - FIXED ASSETS

	1994 BAHT	1993 BAHT
Campus development	24,311,645	23,570,117
Buildings	689,992,002	624,267,020
Furniture and equipment	681,784,479	636,730,774
Library acquisitions	90,282,806	84,323,129
Construction in progress	21,372,810	41,871,066
	<u>1,507,743,742</u>	<u>1,410,762,106</u>

Depreciation for the year amounting to Baht 69,482,194 (1993 : Baht 64,355,245) has not been recorded in accordance with the fund accounting concept.

### NOTE 5 - CONTRIBUTIONS IN KIND

This represents services donated to the Institute in the form of seconded faculty or staff of which the value is estimated on a basis in accordance with the approved Institute professional salary scale. The amounts are recognised as revenues and expenditures in the restricted general fund.

### NOTE 6 - FUND BALANCES

	1994 BAHT	1993 BAHT
Restricted fund		
General	21,069,944	(5,787,305)
Endowment	63,099,490	61,974,185
General reserve	229,629,173	220,084,868
	<u>313,798,607</u>	<u>276,271,748</u>
Capital Fund		
Fixed assets	1,507,743,742	1,410,762,107
Liquid assets -		
Unallocated	15,971,077	11,691,474
Liquid assets -		
Allocated	39,126,387	64,916,461
Repairs and		
Maintenance		
reserve	2,883,126	1,952,181
	<u>1,565,724,332</u>	<u>1,489,322,223</u>

### NOTE 7 - AIT INSURED SAVINGS FUND

The Institute and its staff have jointly set up an insured savings fund scheme. The fund is contributed by staff and the Institute at the rate of 5% and 10% of basic salary, respectively. This fund is managed by HHL Employee Benefits Limited. Withdrawal and refund of the contributions and the related earnings by staff have to comply with the rules of the Insured Savings fund.

### NOTE 8 - CAPITAL COMMITMENTS

As at 30th June, 1994, the Institute had capital commitments in respect of building construction amounting to approximately Baht 5.6 million (1993: Baht 31 million).

### NOTE 9 - BANK GUARANTEES

As at 30th June, 1994, there were outstanding bank guarantees of approximately Baht 4.2 million (1993: Baht 12.5 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.



**ASIAN INSTITUTE OF TECHNOLOGY  
BALANCE SHEETS  
AS AT 30th JUNE, 1994 AND 1993**

	Note	Unrestricted Current Fund		Restricted Fund		Capital Fund		Sponsored Program Fund		Agency Fund		Total	
		1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT
<b>ASSETS</b>													
Cash at banks		14,182,305	9,569,339	55,954,268	13,927,825	15,595,450	20,882,707	22,384,863	10,335,185	34,020,407	45,457,777	142,107,393	100,172,833
Investments	2	17,764,737	17,344,135	258,328,507	261,411,198	49,398,189	62,698,218	28,114,612	61,749,707	46,611,282	21,086,823	400,217,327	424,690,581
Advance duties and taxes	3	11,692,838	11,086,103	-	-	-	-	-	-	-	-	11,692,838	11,086,103
Accounts receivable and accrued income		2,779,177	2,961,119	6,219,026	6,841,047	143,733	202,703	3,432,321	4,594,025	511,257	570,647	13,085,514	15,169,541
Deposits		802,843	839,493	63,561	(41,326)	-	-	-	-	-	-	946,404	798,267
Inventories		-	-	1,081,265	967,059	-	-	-	-	-	-	1,081,265	967,059
Due from other funds		-	-	38,000,000	98,000,000	-	-	-	-	-	-	88,000,000	98,000,000
Fixed assets	4	-	-	-	-	1,507,743,742	1,410,782,106	-	-	-	-	1,507,743,742	1,410,782,106
<b>TOTAL ASSETS</b>		<b>47,301,900</b>	<b>42,200,289</b>	<b>409,616,627</b>	<b>381,105,803</b>	<b>1,572,881,114</b>	<b>1,494,546,234</b>	<b>53,931,796</b>	<b>76,678,917</b>	<b>81,143,046</b>	<b>67,115,247</b>	<b>2,164,874,483</b>	<b>2,061,646,490</b>
<b>LIABILITIES AND FUND BALANCES</b>													
<b>LIABILITIES</b>													
Accounts payable and accrued expenses		7,951,048	2,920,258	6,435,893	5,674,809	7,156,782	5,224,011	16,589,709	2,205,142	1,371,522	651,000	39,504,954	16,675,220
Deposits		836,137	765,316	1,382,127	1,159,246	-	-	-	-	-	-	2,218,264	1,924,562
Due to other funds		-	-	88,000,000	98,000,000	-	-	-	-	-	-	88,000,000	98,000,000
<b>TOTAL LIABILITIES</b>		<b>8,787,185</b>	<b>3,685,574</b>	<b>95,818,020</b>	<b>104,834,055</b>	<b>7,156,782</b>	<b>5,224,011</b>	<b>16,589,709</b>	<b>2,205,142</b>	<b>1,371,522</b>	<b>651,000</b>	<b>129,723,218</b>	<b>116,599,782</b>
<b>FUND BALANCES</b>	6	<b>38,514,715</b>	<b>38,514,715</b>	<b>313,798,607</b>	<b>276,271,748</b>	<b>1,565,724,332</b>	<b>1,489,322,223</b>	<b>37,342,087</b>	<b>74,473,775</b>	<b>79,771,524</b>	<b>66,464,247</b>	<b>2,035,151,265</b>	<b>1,945,046,708</b>
<b>TOTAL LIABILITIES AND FUND BALANCES</b>		<b>47,301,900</b>	<b>42,200,289</b>	<b>409,616,627</b>	<b>381,105,803</b>	<b>1,572,881,114</b>	<b>1,494,546,234</b>	<b>53,931,796</b>	<b>76,678,917</b>	<b>81,143,046</b>	<b>67,115,247</b>	<b>2,164,874,483</b>	<b>2,061,646,490</b>

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

PRESIDENT

*Res. L.S.*

**ASIAN INSTITUTE OF TECHNOLOGY**  
**STATEMENTS OF REVENUES AND EXPENDITURES – UNRESTRICTED CURRENT FUND AND RESTRICTED FUND – GENERAL**  
**FOR THE YEARS ENDED 30th JUNE, 1994 AND 1993**

	Unrestricted Fund		Restricted Fund-General		Total
	1994 BAHT	1993 BAHT	1994 BAHT	1993 BAHT	
<b>REVENUES :</b>					
Tuition and fees :					
Academic unit	196,634,812	192,138,563	-	-	192,138,563
Computer center	6,252,892	5,739,605	-	-	5,739,605
	202,887,704	197,878,168	-	-	197,878,168
Grants and contributions :					
Cash	11,119,918	10,100,595	66,025,388	87,287,120	97,387,215
In kind (Note 5)	-	-	69,730,578	68,969,647	68,969,647
	11,119,918	10,100,595	135,755,966	156,256,767	166,357,362
Grants and contracts	18,334,378	14,531,662	10,802,888	6,016,227	29,137,266
Salaries and services :					
Educational activities	-	63,341	96,794,985	57,405,673	96,794,985
Others	27,098	26,834	1,388,758	1,290,814	1,415,856
	27,098	92,175	98,183,743	58,704,547	98,210,841
Income from investments	22,098	14,366,254	-	-	14,366,254
Auxiliary services	14,619,920	8,207,144	81,974,384	89,656,387	143,688,254
Recovery of indirect costs	-	-	12,616,696	8,997,540	21,614,236
AIT sponsored programs	20,233,695	-	25,235,949	22,179,688	47,413,634
Physical plant support	-	-	1,372,402	2,642,412	4,014,814
Exchange stabilization	-	-	9,590,130	8,621,626	18,211,756
Miscellaneous	-	-	375,532,058	353,673,394	729,205,452
<b>TOTAL REVENUES</b>	<b>267,222,713</b>	<b>245,189,998</b>	<b>375,532,058</b>	<b>353,673,394</b>	<b>642,784,771</b>
<b>EXPENDITURES :</b>					
Salaries and associated costs :					
Cash	162,804,997	155,303,830	(840,598)	9,857,163	165,161,993
In kind (Note 5)	-	-	69,730,578	68,969,647	68,969,647
	162,804,997	155,303,830	68,889,980	78,826,810	234,100,640
Academic units operating costs	23,170,207	26,405,256	118,982,400	104,312,430	142,152,607
Student related costs	1,399,936	1,221,139	6,282,440	6,417,995	7,739,134
Administrative support costs	4,253,440	4,124,106	237,101	128,190	4,480,241
Capital purchases	9,257,663	7,223,666	3,174,404	9,711,805	12,432,067
Campus wide services	56,692,844	49,890,499	-	-	56,692,844
Physical plant support costs	-	-	35,514,487	40,058,544	49,890,499
AIT sponsored programs	-	-	10,843,793	5,910,083	35,514,487
Physical plant support	-	-	66,665,263	63,796,744	10,843,793
Auxiliary services costs	-	-	1,215,338	5,316,170	66,665,263
Exchange stabilization	-	-	36,869,683	27,427,775	63,796,744
Other costs	257,579,087	244,268,496	348,674,798	341,912,606	531,161,170
<b>TOTAL EXPENDITURES</b>	<b>257,579,087</b>	<b>244,268,496</b>	<b>348,674,798</b>	<b>341,912,606</b>	<b>586,181,102</b>
<b>EXCESS OF REVENUES OVER EXPENDITURES</b>	<b>9,643,626</b>	<b>91,502</b>	<b>26,857,260</b>	<b>11,762,788</b>	<b>36,500,866</b>
<b>(EXPENDITURES OVER REVENUES)</b>					<b>12,684,280</b>

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



**ASIAN INSTITUTE OF TECHNOLOGY**  
**STATEMENTS OF CHANGES IN FUND BALANCES**  
**FOR THE YEAR ENDED 30th JUNE, 1994 (WITH COMPARATIVE TOTAL FOR 1993)**

	RESTRICTED FUND				CAPITAL FUND				Total			
	Unrestricted Current fund	General	Endowment	General Reserve	Fixed Assets	Liquid Assets Unallocated	Liquid Assets Allocated	Repairs and Maintenance Reserve		Sponsored Program Fund	Agency Fund	
								BAHT	BAHT			BAHT
Balances, 1 July 1993 (Note 6)	38,514,715	(5,787,305)	61,974,085	220,084,868	1,410,762,107	11,691,474	64,916,461	1,952,181	74,473,775	66,464,247	1,945,046,708	1,816,758,291
Adjustments:												
Amount due to other fund	-	-	-	-	-	-	-	-	-	-	-	(65,000,000)
Disposal of assets	-	(11)	-	-	(2,726,410)	-	-	-	-	-	(2,726,421)	(13,208,231)
Amount due from capital fund to be recorded as restricted fund	-	-	-	-	-	-	-	-	-	-	-	27,502,094
Additions:												
Excess of revenues over expenditures (expenditures over revenues)	9,643,626	26,857,260	-	-	-	-	-	(1,480,000)	(37,131,688)	13,307,277	11,196,475	26,467,787
Investment income	-	-	1,055,315	13,671,602	-	-	-	-	-	-	14,726,917	15,931,298
Government grants and appropriations	-	-	200,000	-	-	-	27,256,236	-	-	-	27,456,236	30,782,473
Gain (loss) on sale of exchange	-	-	(130,010)	(194)	-	-	-	-	-	-	(130,204)	(261,534)
Miscellaneous income and contributions	-	-	-	-	-	5,440,079	15,301,087	-	-	-	20,741,166	66,235,542
Contribution in kind	-	-	-	-	-	-	12,721,264	-	-	-	12,721,264	19,672,519
Amount due from other fund	-	-	-	-	-	-	-	-	-	-	-	35,727,006
	48,158,341	21,069,944	63,099,490	233,756,276	1,408,035,697	17,131,553	120,195,048	472,181	37,342,087	79,771,524	2,029,032,141	1,960,608,245
Deductions:												
Inter-fund transfer from (to)	-	-	-	-	-	-	-	-	-	-	-	-
- Unrestricted Current Fund	(4,821,737)	-	-	-	-	-	2,410,944	2,410,945	-	-	4,821,889	921,502
Salary supplement distribution	-	-	-	-	-	-	-	-	-	-	(4,821,737)	-
- Restricted Current fund	-	-	-	-	-	-	-	-	-	-	-	-
- General Reserve	-	-	-	-	-	-	-	-	-	-	-	(307,167)
- Liquid Assets Capital Fund	(2,410,944)	-	-	-	-	-	-	-	-	-	(2,410,944)	(307,168)
- Allocated	(2,410,945)	-	-	-	-	-	-	-	-	-	(2,410,945)	(307,167)
- Repairs and Maintenance Reserve	-	-	-	-	-	-	-	-	-	-	-	-
Expenditures for plant facilities	-	-	-	(4,127,103)	99,708,045	-	(16,060,694)	-	-	-	79,520,448	86,929,367
- Cash	-	-	-	-	-	-	(12,721,264)	-	-	-	(12,721,264)	(19,672,519)
- Kind	-	-	-	-	-	-	-	-	-	-	-	-
Other cost	-	-	-	-	-	(1,160,476)	(54,697,847)	-	-	-	(55,858,323)	(43,818,385)
- General	-	-	-	-	-	-	-	-	-	-	-	(33,000,000)
- Amount due to other fund	-	-	-	-	-	-	-	-	-	-	-	-
	(9,643,626)	-	-	(4,127,103)	99,708,045	(1,160,476)	(81,068,661)	2,410,945	-	-	6,119,124	(15,561,537)
Balances, 30 June 1994 (Note 6)	38,514,715	21,069,944	63,099,490	229,629,173	1,507,743,742	15,971,077	39,126,387	2,883,126	37,342,087	79,771,524	2,035,151,265	1,845,046,708

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

## Appendix

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<b>SENIOR ADMINISTRATIVE OFFICERS</b>	<b>President</b> <b>Vice President for Academic Affairs</b> <b>Vice President for Development</b> <b>Bursar</b> <b>Academic Secretary</b>	Prof. Alastair M. North Prof. Ricardo P. Pama Prof. Pisidhi Karasudhi Mr. Edward Mayer Dr. Roger Hawkey
<b>DEANS OF SCHOOLS</b>	<b>Advanced Technologies</b> <b>Civil Engineering</b> <b>Environment, Resources and Development</b>  <b>Management</b>	Prof. A.B. Sharma Prof. Prinya Nutalaya Prof. Karl E. Weber Prof. Chongrak Polprasert (Associate Dean) Prof. Jyoti P. Gupta
<b>CENTER DIRECTORS</b>	<b>Asian Disaster Preparedness Center</b> <b>Continuing Education Center</b> <b>Library and Regional Documentation Center</b> <b>Regional Computer Center</b> <b>Center for Language and Educational Technology</b> <b>AIT Center Vietnam</b>	Mr. Terry Jeggle Dr. Nicanor C. Austriaco Prof. Robert D. Stuart Dr. Charoon Chirapaisarnkul  Mr. William Savage (Chairperson) Dr. Risto Tarjanne
<b>RESEARCH PROMOTION</b>		Dr. Giap Van Dang (Director)
<b>STUDENT AFFAIRS</b>	<b>Dean of Student Affairs</b> <b>Student Union President</b>	Dr. Roger Hawkey Mr. Chap Sotharith (Jan-Sept 1994) Mr. Santanoo Medhi (Sept-Dec 1994)



## Abbreviations

ADB	Asian Development Bank	KEIDANREN	Federation of Economic Organizations, Japan
AEEMTRC	ASEAN-EC Energy Management Training and Research Center	KU	Kasetsart University, Thailand
CAT	Communications Authority of Thailand	KMIT	King Mongkut's Institute of Technology, Thailand
CEC	Commission of the European Communities	MEA	Metropolitan Electricity Authority
CIDA	Canadian International Development Agency	MOSTE	Ministry of Science, Technology and Energy, Thailand
CIP	International Potato Center	NESDB	National Economic and Social Department Board, Thailand
CUC	Canadian University Consortium	OCMRT	Office of the Committee for Management of Road Traffic
DTEC	Department of Technical and Economic Cooperation, Thailand	PNOC	Philippine National Oil Company
EC	European Community	RHUDO	Regional Housing and Urban Development Office, USAID
EGAT	Electricity Generating Authority of Thailand	SEAMES	Southeast Asian Ministers of Education Secretariat
ESA	European Space Agency	TOT	Telephone Organization of Thailand
ESCAP	Economic and Social Commission for Asia and the Pacific	UCLES	University of Cambridge Local Examinations Syndicate
FAO	Food and Agriculture Organization	UN	United Nations
GRID	Global Resources Information Database	UNCHS	United Nations Commission for Human Settlements
ICIMOD	International Center for Integrated Mountain Development	UNIDO	United Nations Industrial Development Organization
IDRC	International Development and Research Center, Canada	UNDP	United Nations Development Program
IMO	International Maritime Organization	UNDRO	United Nations Disaster Relief Organization
ILO	International Labour Organization	UNEP	United Nations Environment Program
INDEVELOP	International Development Consultant Services, Vietnam-Sweden Health Cooperation Program	UNESCO	United Nations Educational, Scientific and Cultural Organization
ITU	International Telecommunications Union	UNICEF	United Nations Children's Fund
IRRI	International Rice Research Institute	WECS/NEA	Water and Energy Commission Secretariat/Nepal Electricity Authority
IUCN	International Union for the Conservation of Nature	WHO	World Health Organization

## SCHOOLS, PROGRAMS, AND CENTERS IN THE INSTITUTE

### SCHOOLS

SAT	School of Advanced Technologies
SCE	School of Civil Engineering
SERD	School of Environment, Resources and Development
SOM	School of Management

### PROGRAMS

AFE	Agricultural and Food Engineering
CS	Computer Science
EE	Environmental Engineering
ET	Energy Technology
GTE	Geotechnical and Transportation Engineering
HSD	Human Settlements Development
IEM	Industrial Engineering and Management

IREM	Irrigation Engineering and Management
NR	Natural Resources
SEC	Structural Engineering and Construction
TC	Telecommunications
WRE	Water Resources Engineering

### CENTERS

ADPC	Asian Disaster Preparedness Center
CEC	Continuing Education Center
CLET	Center for Language and Educational Technology
LRDC	Library and Regional Documentation Center
RCC	Regional Computer Center

