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Cover: The pyramid symbolizes the Institute’s spirited pursuit of its mission, springing from an integrated vision of its role and supported by an ever-widening base of academic, research and outreach programs.
THE BENDER DREAM

Prof. Milton Bender, Jr., AIT's founding President, remembers people and events from the Institute's early years.

Prof. Bender served as Dean of the SEATO Graduate School from May 1963 to December 1967, joining the School from the Colorado State University where he was head of the civil engineering department. Prof. Bender guided the transition of the School into an independent, autonomous institution, serving as first President of the Asian Institute of Technology from January 1967 to February 1973, and for a second term from January 1975 to January 1977.

Accompanied by his wife, Lettha, Prof. Bender visited AIT from 8 to 14 March 1993, marking his second "homecoming" since retiring in 1977. His recollections of those pioneering years speak of challenges and the triumph of making AIT, which was referred to historically and in jest as 'the Bender Dream', a reality.

"Thank you for AIT..." For the alumni and former staff of AIT, Prof. Bender's visit provided a rare opportunity to thank the Institute's Founding President for his good work. Photographed with Prof. Bender at a welcome party are Dr. Anut Arbubokhrana (WRE '82), Dr. Za-Chih Mok, former AIT Vice President and Provost, and Dr. Thongchat Hongladarom (SEC '62).

"Let me share some background here. The appellation, 'Bender Dream', was started by USAID and was used initially in a somewhat derogatory way. I was pushing the development of the Institute and the general feeling at that time was that my idea could never work. But when things did begin to move, the appellation changed from a 'dream' to a vision.

"It is indeed gratifying to see how the Institute so closely resembles my own vision of it. There are differences, of course, but all in all everything is going very nicely.

"This institution, I used to tell people, is going to be one of the world's greatest. I do realize that it has problems. These are sometimes unavoidable and often they arise because people take a very short-term view of the Institute. The point is you've got to look at the Institute 30 years, even a hundred years, ahead.

"The main thing is to be patient and to keep trying. That's what we did. Remember, there is no such thing as absolute security.

"When we started, we had to educate countries about the validity of our programs, and that took time. People asked: Who is going to award the degree? You? You want to award the degree? You can't do that.' We also had to compete for scholarships. A common practice among donor countries at that time was to restrict the award of scholarships to their own universities.

"Before coming to Thailand, I was with the Colorado State University, which had a large number of Asian students in the graduate program in engineering. About 90 per cent of these students stayed on in the United States after graduation.

"When I became Dean of the SEATO Graduate School, I saw an opportunity to build an institution that would keep Asian students in their home countries.

"I was committed to this idea because academic programs are essentially area-oriented. Students educated in programs tailored to their home areas are in effect better trained.

"Looking at what AIT has achieved, I would say that our efforts in those early years have paid off.

"My view of AIT is long range. It should always strive to improve its academic standards, promote the Doctoral program, and sustain its reputation as a center of excellence, without necessarily seeking to respond to all the needs of all countries in the Asian region. In time, I believe the reputation of this Institute will be such that students will try to get in at their own expense. AIT has indeed become a prestigious institution."
**THE YEAR IN BRIEF**

**1993 LANDMARK EVENTS**

- **February 16**
  A memorandum of understanding establishing the AIT Center in Vietnam was signed in Hanoi by AIT President Alastair North and Prof. Pham Minh Hac, First Vice-Minister of Education and Training of the Government of SR Vietnam.

- **May 17**
  Opening of the Swiss-AIT Vietnam Management Development Project in Ho Chi Minh City, the Institute's first one-year academic program outside its campus.

- **July 1**
  The amalgamation of the former academic divisions into four Schools - Civil Engineering, Advanced Technologies, Management, and Environment, Resources and Development - came into effect, following a rigorous restructuring of the Institute's academic programs.

**STUDENTS AND ALUMNI**

The five largest groups of alumni are from

- Thailand 1499
- Chinese Taipei 706
- Philippines 671
- Sri Lanka 487
- Pakistan 488

The six largest groups of graduates in 1993 are from

- Thailand 78
- People's Republic of China 46
- Nepal 45
- Philippines 44
- Indonesia 40
- Vietnam 40

Total Alumni (1961-1993): 6537

**PARTNERSHIPS AND COLLABORATIONS**

Contributions Received in FY 1992-93 (%)

- Governments (75.19%)
- Business, Foundations, Private Sources (8.23%)
- National Government Agencies (8.40%)
- International Organizations (6.18%)

Three Largest Supporting Governments
FY 1992-93 and FY 1991-92

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<tr>
<td>Germany</td>
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</tr>
<tr>
<td>Thailand</td>
<td>8.04</td>
<td>7.13</td>
</tr>
</tbody>
</table>

Total Contributions Received in FY 1992-93 (Baht '000): 650,058

In 1993 the Institute received the largest grant ever presented by a private donor. Dr. Sonsak Leesawadtrakul, Chairman and Chief Executive Officer of SSP Group of Companies, presented approximately 30 million Baht to support the construction of the Chalerm Pra Kiet Building (meaning "In Their Majesties' Honor"). The building will house the Computer Integrated Manufacturing Laboratory as well as offices and classrooms of the program in Industrial Engineering and Management.

Gen. Prem Tinsulanonda, former Prime Minister of Thailand, presided over the groundbreaking ceremony on 29 March. To the left of Gen. Prem is Dr. Sonsak.
PRESIDENT'S MESSAGE

1993 - a year of coordination, consolidation, and continued successful progress.

The best description of 1993 for AIT would be "a year of consolidation". On the academic front, the new Schools - Advanced Technologies, Civil Engineering, Management, and Environment, Resources and Development - came into existence and the divisions as administrative units passed into history.

The transition took place smoothly and work started immediately to develop the advantages potentially available through the amalgamation. The two most immediate of these, curriculum reform and more cost-effective utilization of employee resources, were already showing progress by the year end. A most encouraging feature has been the very positive way faculty and staff have set themselves to achieving the amalgamation objectives, and I express my own appreciation of this in warmest terms.

On the financial front, stability has been achieved by a significant increase of Thai support for student scholarships. This has come about by way of a well-conducted strategy of building partnerships with universities, government agencies and private corporations in our host country. Scholarship support is, of course, vital in maintaining tuition fee income, and long-term equilibrium does require new scholarship sources to balance the inexorable decline in what we call "internal" scholarships donated to the Institute by western donors as part of their overseas aid to the region. The Development Office, led by the Vice President for Development, is to be congratulated on its success in this activity. Of course, many other "external" scholarship sources have been tapped by faculty and staff seeking support for their professional subject areas, so that the effort is truly Institute-wide.

1993 saw, too, the official opening of the program in Ho Chi Minh City, as well as the completion of building renovation of our premises in Hanoi. The AIT Center in Vietnam is, therefore, well and truly underway with the first program in Management Development three quarters completed and the first in Industrial Engineering and Management ready to start. The Center is exciting great interest in the donor community, as well as in other countries of the region which, too, would like a local AIT Center.

While Vietnam contains the only Institute Center outside Bangkok, a number of projects have offices in other locations. Significant among these are our aquaculture offices in Laos and Cambodia (supported mainly by Denmark, Sweden and the United Kingdom), and plans to construct a regional development project office in Baguio City, Philippines.

This report lists all the salient details of our academic activities and the associated donor support. The reader can see the ever broadening mix of student nationalities, the enlarged portfolio of partner agencies, and the steadily growing physical facilities, yet all coordinated in our clearly defined mission.

Overall, it is this clarity of purpose that established 1993 as a year of coordination, consolidation, and continued successful progress. For this I express my utmost appreciation of the endeavors of my colleagues, as well as of our Trustees and many supporters.

Alastair M. North
The establishment of the AIT Center in Vietnam (AITCV) is a step forward in two respects. It fulfills AIT's commitment to the technological development of the countries of this region and contributes to the international experience and education of the young people of Vietnam.

The AITCV marks a breakthrough in AIT's expansion in Asia. Its establishment is contained in a memorandum of understanding signed on 16 February 1993. The Hanoi-based AITCV will be officially inaugurated in February 1994. Its product portfolio will be developed in response to existing/emerging needs in Vietnam, while taking into account AIT's areas of strength.

In Ho Chi Minh City, the three-term Swiss-AIT Vietnam Management Development Project commenced in May 1993 and was officially inaugurated later in September. The first group of 31 participants consisted of faculty members from four partner universities, namely the National University of Economics, Hanoi Polytechnic University, Ho Chi Minh City Economics University, and Ho Chi Minh City Polytechnic University, and six other universities.

The programs in the Hanoi and Ho Chi Minh City branches offer substantial service to Vietnam, both in the home environment and through enhanced entry to the degree programs at AIT. The programs parallel the Institute's introductory courses, and as with approved postgraduate courses in other universities, will qualify for credit transfer to AIT. Those who complete one year of studies but do not continue to a post-graduate degree at AIT will be awarded a special diploma.

"...a significant event in the history of tertiary education in Vietnam and at AIT..."

"The Hanoi branch is ideally placed to assist the move towards industrial, technological and economic parity between the north and the south. The Ho Chi Minh City branch brings the Center in close proximity to existing industrial and technological developments. Both programs will prepare certain of the trainee students to complete their degree programs at the AIT campus."

Prof. Alastair North
AIT President

"...a model of international standard for post-graduate education, curriculum development, and educational methodologies..."

"AITCV symbolizes the Vietnamese Government's recognition of AIT's contribution to regional growth and the demands in human resource development for the economic reform of Vietnam. We hope AITCV will closely cooperate with Vietnamese universities to improve and promote the institutional development process underway in the universities."

Prof. Pham Minh Hac
First Vice-Minister
Education and Training
Government of SR Vietnam
BREAKTHROUGHS

While Vietnam contains the only Institute Center outside Bangkok, a number of AIT projects have offices in other locations, the most significant of these being aquaculture offices in Laos and Cambodia. These are supported by the Governments of Denmark, Sweden and the United Kingdom. Under study is a regional development project office in Baguio City, Philippines. These developments augur well for the Institute's pursuit of new strengths in various Asian countries.

BRIDGING PROGRAM

The "Bridging Program", a one-term pre-Master's program of education fundamental to the admission of students from weak educational backgrounds, will begin in January 1994 for students entering the School of Advanced Technologies in the May term. The Program, which will be conducted by the Center of Language and Educational Technology (CLET), covers deficiencies in fundamental science education and English language training. Places have been offered to six students from Laos, Mongolia, the People's Republic of China, and Vietnam.

THAILAND-BASED COLLABORATIONS

Major government and state enterprises and universities in Thailand are expected to support more than 60 staff development scholarships over the next four years. Scholarships under the Thai-AID Program will benefit students from Myanmar and Vietnam.

FUTURE PROSPECTS

In 1993 AIT turned its attention to a new section of the region, namely the six Asian Republics of the Commonwealth of Independent States (CIS) and Mongolia. Contact with Mongolia was renewed in late 1993 when a delegation from the Development Office and the Water Resources Engineering Program visited Ulan Bator. This followed contacts in previous years, which led to a memorandum of understanding with the Mongolian Academy of Sciences enabling short periods of study in energy technology by a small group of Mongolian scientists.

The 1993 mission is expected to pave the way for the enrolment of Mongolian students under the Institute's normal scholarship allocation.

In the case of the CIS, contacts were initiated in the second half of 1993. Negotiations with potential collaborating universities will be conducted in early 1994, with the objective of enrolling the first CIS students by late 1994 or early 1995. The Government of Japan will support 20 scholarships for students from these countries.
The most significant academic development in 1993 was the amalgamation of the former academic divisions into four schools, bringing with it the rationalization of course combinations and introduction of greater interdisciplinarity in the Institute's course offerings.

RESTRUCTURING AND CURRICULAR REFORM

The most significant academic development in 1993, the amalgamation of the former academic divisions into four schools, one of which was pre-existing, came into effect by the end of June. The Deans were appointed shortly thereafter.

The restructuring brought about new administrative arrangements, which delineated the functions of the Deans and provided mechanisms for faculty participation in decision-making. Two structures were created to support the Dean’s Office, namely an Advisory Panel of Program Coordinators and a Faculty Forum. These structures will be modified as curricular reform and the reallocation of Faculty administrative responsibility get underway.

Along with the creation of the Schools, the Institute initiated moves to rationalize course combinations and to introduce cross-School interdisciplinarity. Thus, the Institute should be able to further strengthen its capacity to respond quickly and flexibly to changing market needs, and relieve the pressure to preserve traditional programs and fields.

The restructuring has created opportunities to change or terminate certain areas of specialization, and to introduce new ones that are more relevant to the needs of the Institute’s target countries. Faculty response to the on-going curricular reform has so far been encouraging.

The evolution of a truly intra-school curriculum will allow the students to pursue more interdisciplinary studies and research. It will also encourage more effective use of faculty resources.
ACADEMIC AFFAIRS

APPOINTMENT OF DEANS

School of Civil Engineering
Prof. Pisithi Karasudhi
Prof. Pisithi, an AIT alumnus, received his M.Eng. in Structural Engineering from the SEATO Graduate School of Engineering. He obtained his B.Eng. in Civil Engineering from Chulalongkorn University and Ph.D. in Civil Engineering from Northwestern University. Prof. Pisithi serves on the AIT Board of Trustees in his capacity as AIT Faculty Representative. He joined AIT in 1969.

School of Environment, Resources and Development
Prof. Karl E. Weber
Prof. Weber obtained his M.A. in Ethnology and Dr. phil. in Sociology from Ruperto Carola University, Heidelberg. He joined AIT in 1978. Prof. Weber has played key roles in the implementation of CIDA support programs at AIT and has been Project Manager of the CIDA/AIT-CUC Partnership Project.

The Associate Dean of the School of Environment, Resources and Development is Prof. Chongrak Polprasert. Prof. Chongrak obtained his M.Eng. in Environmental Engineering from AIT in 1974. He attended the University of Washington in Seattle on a Fulbright scholarship, receiving a Ph.D. in Civil Engineering.

School of Advanced Technologies
Prof. A.B. Sharma
Prof. Sharma holds a B.Sc. (Hons.) in Physical Electronics from the University of Northumbria, UK, and a Licenciate of Technology (Ph.D.) in Applied Electronics from Helsinki University of Technology. He also obtained a D.Tech. in Communications from this University for his work on sub-optimum receivers for satellite-laser ranging. Prof. Sharma joined AIT in 1990.

The School of Management is headed by a Director, Prof. Jyoti P. Gupta. Prof. Gupta obtained his Ph.D. from the University of Manchester, UK, and was Professor in Finance at Ecole Superieure de Commerce de Paris before joining AIT. He is seconded by the Government of France.

INFORMATION TECHNOLOGY INITIATIVES

Proposed Master’s Program

The concept for a Master’s program in Information Technologies is under study by a working group representing the Library and Regional Documentation Center (LRDC), the Computer Science Program, the Regional Computer Center, and the School of Management. Definitive action on the proposed program is expected with the arrival by mid-1994 of the new Director of LRDC, Dr. Robert Stueart, former Dean and Professor of the Graduate School of Library and Information Science at Simmons College, Massachusetts.

Coordinated GIS Activities

The Institute has established a working group to study the coordination of geographic information systems (GIS)-related activities in the different academic programs, namely Natural Resources, Human Settlements Development, Computer Science, Agricultural and Food Engineering and Environmental Engineering, as well as the AIT-based GRID activity of UNEP.
STUDENT ENROLMENT

The average enrolment in the degree-awarding units during the three terms in 1993 increased by almost 4 per cent over the 1992 figure, with marked enrolment variations observed from program to program. While some programs, like Computer Science, kept pace with the overall rise in enrolment, others performed at the same levels as in recent years. The continued growth of the School of Management was a significant enrolment trend in 1993.

DOCTORAL ENROLMENT

The Doctoral program enrolment reached 13.5 per cent of total enrolment in the September 1993 term, but was still well below the 20 per cent target.

1993 Student Enrolment

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<tr>
<th>Term</th>
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<tr>
<td>May</td>
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<td>29</td>
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<tr>
<td>Sept</td>
<td>970</td>
<td>46</td>
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<tr>
<td>Average</td>
<td>949</td>
<td>34</td>
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*Program in Computer Applications Development (PCAD) and REMOTE Sensing (Not including Taikbase Program).

1993 Master's and Doctoral Enrolment

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<th>May</th>
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<td>66</td>
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<td>D.Tech.Sc.</td>
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<td>Ph.D.</td>
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<th>Master's</th>
<th>Jan</th>
<th>May</th>
<th>Sept</th>
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<td>430</td>
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<td>M.Sc.</td>
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<tr>
<td>MBA</td>
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<td>106</td>
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<th>Total No. of Degree Students</th>
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<th>May</th>
<th>Sept</th>
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<tr>
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<td>12.7</td>
<td>13.8</td>
<td>13.9</td>
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INTERNATIONAL ENROLMENT

Forty-two countries are represented in the student body. The six largest nationality groups are from Thailand, the People's Republic of China, Vietnam, Nepal, the Philippines and Pakistan.

The Institute's international enrolment maintained a diverse yet consistent overall pattern. Further increases in enrolments from Laos and Cambodia are expected with the opening of the Pre-Master's Bridging Program.
MARTEN'S EFFORTS

Measures to increase the enrolment of fee-paying students are under study. The proposals include the training of some Faculty as marketing agents and the appointment of a marketing representative in each School to coordinate the development and implementation of promotional plans in collaboration with the Office of Media and Information Services (OMIS) under the Office of the Vice President for Development. The AITAA Chapters have been approached for assistance and greater involvement in marketing the Institute.

Effective marketing would require thorough analysis of the following factors: AIT’s country markets and their respective demands for technological expertise and graduate education, the trend towards country-focused scholarship grants, and the growing number of students willing to take partial or full responsibility for their study costs.

As part of the marketing efforts carried out in 1993, promotional visits were made to Thai universities and government organizations. These contributed to student intakes in the three terms.

Under the new structure student intakes are scheduled as follows: January term for the School of Environment, Resources and Development (SERD), May term for the School of Advanced Technologies, and September term for the Schools of Civil Engineering and Management. Given that SERD has the most number of programs of the four Schools, the highest student intake is expected in the January term.
GRADUATION

The Institute awarded degrees to 456 students in 1993, compared with 442 in 1992. AIT now has 6537 graduates from 44 countries in Asia and other regions.

1993 GRADUATION RECORD

by Degree

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<th>Degree</th>
<th>Apr</th>
<th>Aug</th>
<th>Dec</th>
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by Country

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by Program

<table>
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<td>HSD</td>
<td></td>
<td>20</td>
<td>15</td>
<td>36</td>
</tr>
<tr>
<td>School of Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td>41</td>
<td></td>
<td>1</td>
<td>42</td>
</tr>
</tbody>
</table>

By following a high admission criteria, close monitoring of the students' progress, and strict implementation of a probational system, the Institute ensures the quality of its graduates.
## GRADUATION AWARDS

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

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

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

**INSTITUTE PRIZE**

**Y.Y. KISHIDA PRIZE**, established in 1997 by Mr. Yoshisuke Kishida, owner of the Shiki Norinsha Co., Tokyo, in memory of his son, Yoshiyuki.

**HISAMATSU PRIZE**, awarded from funds provided by Prof. Yoshihiro Hisamatsu, former Dean of the Faculty of Engineering, University of Tokyo, and a present a Technology Adviser for Nisshin Steel Co. Ltd., Japan.

**TELECOM-FINLAND PRIZE**, awarded to the most outstanding Telecommunications Master's graduate.

**TIM KENDALL MEMORIAL PRIZE**, in memory of Mr. R. M. Kendall, an AIT Trustee from 1971 to 1981.

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

<table>
<thead>
<tr>
<th>April</th>
<th>August</th>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apríli</td>
<td>Mr. Jay Prakash Sah (NR), Nepal</td>
<td>Mr. Mokbul Morshed Ahmad (HSD), Bangladesh</td>
</tr>
<tr>
<td>Mr. Surkhat Surbhanun (SOM), Thailand</td>
<td>Mr. Rajahmath Jha (IREM), Nepal</td>
<td>Mr. Krishna Jee Pahari (NR), Nepal</td>
</tr>
<tr>
<td>Mr. I. C. R. Fernando (GTE), Sri Lanka</td>
<td>Mrs. Nguyen Huong Thuy Phan (WRE), Vietnam</td>
<td>Mr. Shallesh Khanal (CS), Nepal</td>
</tr>
<tr>
<td>Mr. Navaratnam Valanathan (SEC), Sri Lanka</td>
<td></td>
<td>Mr. Muhammad Sharif Islam (TC), Bangladesh</td>
</tr>
<tr>
<td>Mr. Muhammad Amjad (SEC), Pakistan</td>
<td>Mrs. Nguyen Huong Thuy Phan (WRE), Vietnam</td>
<td>Mr. Kesavan Sengaradas (IEM), Sri Lanka</td>
</tr>
<tr>
<td>Mrs. Fe Garcia Tetangco (SOM), Philippines</td>
<td></td>
<td>Mrs. Devasali Subrahmanian Mani (ISD), India</td>
</tr>
</tbody>
</table>

Presented in April as the **YOHEI MIMURA PRIZE**

Presented in August as the **AKIO MORITA PRIZE**

Presented in December as the **EISHIRO SAITO PRIZE**
FACULTY

STRENGTH

While the proportion of seconded Faculty rose to 46 per cent from last year’s 40 per cent figure, it was still below the 50 per cent that is considered appropriate for the Institute’s academic operations. An analysis of the overall Faculty count showed that none of the increase was in the full-time, long-term numbers, a result of the very strict semi-freeze on new full-time Faculty contracts, especially those supported from central funds. However, the significant rise in the number of Associated Faculty, referring to academics employed by another institution but hired by AIT on a paid consultancy basis to do specific teaching and/or research duties, should be monitored to ensure the cost-effectiveness of the Institute’s teaching staff structure.

A more efficient distribution of Faculty is envisaged once cross-School interdisciplinarity and curricular reform come into full effect. The target of 9 to 1 student-to-Faculty ratio may well be a long-awaited consequence of this.

<table>
<thead>
<tr>
<th>Country/Organization</th>
<th>Man Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governments</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>85.0</td>
</tr>
<tr>
<td>PRC</td>
<td>24.0</td>
</tr>
<tr>
<td>Chinese Taipei</td>
<td>12.0</td>
</tr>
<tr>
<td>Finland</td>
<td>43.0</td>
</tr>
<tr>
<td>India</td>
<td>19.0</td>
</tr>
<tr>
<td>Japan</td>
<td>167.5</td>
</tr>
<tr>
<td>PCK</td>
<td>22.0</td>
</tr>
<tr>
<td>Norway</td>
<td>19.5</td>
</tr>
<tr>
<td>Sweden</td>
<td>35.0</td>
</tr>
<tr>
<td>Switzerland</td>
<td>8.5</td>
</tr>
<tr>
<td>USA</td>
<td>27.5</td>
</tr>
<tr>
<td>European Economic Community</td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>36.5</td>
</tr>
<tr>
<td>CEC</td>
<td>22.0</td>
</tr>
<tr>
<td>Denmark</td>
<td>30.0</td>
</tr>
<tr>
<td>France</td>
<td>84.0</td>
</tr>
<tr>
<td>Germany</td>
<td>62.0</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>77.0</td>
</tr>
<tr>
<td>International Organizations</td>
<td></td>
</tr>
<tr>
<td>AID</td>
<td>12.0</td>
</tr>
<tr>
<td>ESA</td>
<td>12.0</td>
</tr>
<tr>
<td>IUCN</td>
<td>12.0</td>
</tr>
<tr>
<td>UNEP</td>
<td>6.0</td>
</tr>
<tr>
<td>Government Agencies</td>
<td></td>
</tr>
<tr>
<td>IDRC, Canada</td>
<td>11.5</td>
</tr>
<tr>
<td>UCLES, UK</td>
<td>1.0</td>
</tr>
<tr>
<td>Business and Industry</td>
<td>14.0</td>
</tr>
<tr>
<td>Foundation</td>
<td></td>
</tr>
<tr>
<td>Fulbright Foundation</td>
<td>4.0</td>
</tr>
<tr>
<td>Total</td>
<td>847.0</td>
</tr>
</tbody>
</table>

The international character of the AIT Faculty has created a unique strength for the Institute.

DEVELOPMENT AND SUPPORT

As with previous years, the Institute was ably supported by a stable community of core direct-hire Faculty, with a significant proportion recognizing AIT as their career institution. Nearly all Faculty departures in 1993 were of visiting academics who were contracted only for a limited, pre-specified period.

The pattern of academic ranks confirms the Institute’s role in the career development of Faculty. An abiding tradition at AIT is the award of promotions in recognition of the professional reputations of Faculty and their growing experience and expertise.

The now firmly-established Curriculum Innovation Grant and Research Initiative Grant provide important incentives to Faculty development.

PUBLICATIONS

1993 showed a continuing strength in the Institute’s publication performance, with last year’s average of 3.6 journals or conference papers per Faculty being maintained.
RESEARCH AND OUTREACH

RESEARCH POLICY AND STRUCTURE

The establishment of the four Schools brought wide-ranging implications for Institute research. The most evident was the greater coherence in research policy and structure and the re-invigoration of research activities as a result of the reformed curricula, the increased authority of the Schools and the improved incentives for sponsored research projects. Research functions previously undertaken by the former Regional Research and Development Center have been delegated to the four Schools.

The ANNUAL REPORT OF RESEARCH for 1992 covers 208 projects that were completed during the year or continued in 1993. The wide range of research activities carried out demonstrates the Institute’s conviction that independent research, in combination with a rigorous coursework program, presents the most appropriate and effective means of fulfilling AIT’s educational mission.

OUTREACH

Outreach activities have taken a firm place as one of the Institute’s three main scholarly pursuits, alongside teaching and research. A feature of 1993 was the growth of short course training and conference activities conducted by the Schools and the Outreach Centers.

A significant result of the Institute’s expanding outreach activities was the creation of several focal points outside Thailand. The agriculture/aquaculture program has opened project offices in Laos and Cambodia, as well as in Northeast Thailand. The School of Environment, Resources and Development will shortly open a regional development project office in the Philippines. To-date the Institute’s most ambitious project outside Thailand is the establishment of the AIT Center in Vietnam.

A historic outreach activity carried out in 1993 was the Queen Sirikit Environment and Development Seminar, which was conducted in December by the Continuing Education Center in cooperation with the Royal Development Project Board, the United Nations Environment Program and the Economic and Social Commission for Asia and the Pacific. Prof. Dr. Her Royal Highness Princess Chulabhorn graciously opened the three-week seminar, which was held in commemoration of Her Majesty the Queen’s 60th birthday and in recognition of her commitment to improving the quality of life of the people of Thailand.

The seminar participants visited the Royal projects to examine their approaches, methodologies and environmental aspects, with a view to applying them in the most appropriate manner in their respective countries. The seminar was attended by 27 participants from various Asian countries.

In October 1993, the Asian Disaster Preparedness Center conducted a disaster management course (DMC) in Manila, the first of its first semi-annual, six-week course to be held outside the AIT campus since the Center’s establishment in 1986. Through this activity, ADPC was able to demonstrate the real meaning of "outreach assistance".

Development can be achieved without destroying the environment, Prof. Dr. HRH Princess Chulabhorn said in her Royal address at the opening of the Queen Sirikit Environment and Development Seminar. She urged the "pursuit of development strategies and alternative lifestyles that are more conserving and caring and have minimum consequences on the environment."

Above: Prof. Dr. Her Royal Highness Princess Chulabhorn. Below: A group photo of the seminar participants.
PARTNERSHIPS AND COLLABORATIONS

In fiscal year 1992-93 negotiations with the Institute's long-term supporters resulted in the renewal of five cooperation agreements valued at over 7.6 million US dollars. The renewals provided grants for Master's and Doctoral scholarships, faculty secondments, equipment, Institute operations, program support, and French scholarships for AIT faculty and staff. Proposals for nine new collaborations valued at 24.2 million US dollars were initiated.

Collaborations Renewed in FY 1992-93

<table>
<thead>
<tr>
<th>Country</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>US$ 1,064,000</td>
</tr>
<tr>
<td>Belgium</td>
<td>US$ 144,000</td>
</tr>
<tr>
<td>Finland</td>
<td>US$ 4,300,000</td>
</tr>
<tr>
<td>France</td>
<td>US$ 767,188</td>
</tr>
<tr>
<td>Japan</td>
<td>US$ 1,339,600</td>
</tr>
</tbody>
</table>

Prospective Renewals For FY 1993-94

For the period

<table>
<thead>
<tr>
<th>Country</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>1994-96</td>
</tr>
<tr>
<td>Denmark</td>
<td>1994-96</td>
</tr>
<tr>
<td>France</td>
<td>1994</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>1994</td>
</tr>
<tr>
<td>Netherlands</td>
<td>1993-95</td>
</tr>
<tr>
<td>Norway</td>
<td>1994-96</td>
</tr>
<tr>
<td>Sweden</td>
<td>1993-95</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1994-96</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1993-96</td>
</tr>
</tbody>
</table>

Total Contributions Received FY 1992-93 (By Sector)

- Governments: 75.19%
- National Government Agencies: 9.40%
- Business, Foundations, Private, and Others: 6.23%
- International Organizations: 5.18%

Total Contributions Received FY 1959-60 to FY 1992-93 (By Sector)

- Governments: 17.53%
- Business, Foundations, Private, and Others: 11.21%
- International Organizations: 5.24%
- National Government Agencies: 5.06%
THAILAND-BASED COLLABORATIONS

In 1993 six Thai government agencies and state enterprises signed agreements to support a total of 53 scholarships over the next four years as part of their staff development and staff recruitment programs. The collaborators included the Electricity Generating Authority of Thailand, Telephone Organization of Thailand, Communications Authority of Thailand, the Royal Thai Navy, Petroleum Authority of Thailand and Airports Authority of Thailand. Three Thai educational institutions, namely Naresuan University, Thammasat University and the Rajamangala Institute of Technology, pledged eight scholarships.

Collaborations with the private sector yielded 825,625 US dollars from three Thai companies. The grants will support the construction of the Chulalongkorn Building, student research, and the acquisition of equipment for the environmental engineering laboratory.

Thailand’s accelerated human resource development efforts have placed AIT at a prime advantage as an academic partner. By the end of 1993, collaborations were being finalized with the Ministry of University Affairs, the Ministry of Science, Technology, and Environment, and the Securities and Exchange of Thailand. These will provide scholarships for the Master’s program and grants for short-term training.

ISSUES AND RECOMMENDATIONS

A strength that is unique to AIT is its effectiveness as an institution for third country education and training, and as a partner for the developed countries in implementing development assistance policies and priorities. To sustain this strength, the Institute should constantly seek to address the needs of national educational institutions in science and technology in the region. This would require the Institute to link up and dialogue with both its target beneficiary countries and donor countries. To this end, the expansion of collaboration programs, initiated through contacts made in 1993 with Indonesia, Brunei, Malaysia, the Republic of Korea, the People’s Republic of China, and Chinese Taipei should be pursued.

The plateauing of internal or AIT-nominated scholarships should be balanced by increases in the number of externally supported and self-support students. The implications of this target market shift are seen in the need for marketing campaigns and new financing schemes. These would require policy support complemented by the establishment of infrastructure to undertake these functions.

The Institute’s promotional and information activities are only at the threshold of what can be achieved, but they provide a solid foundation for an Institute-wide, systematic marketing and information dissemination program with the Office of Media and Information Services, supported by policy guidelines and resource allocations, playing a key role.

PROSPECTS

The expanding involvement of European and North American countries in Asia’s continuing economic growth has created a demand for “home-grown” management and technical experts required by the growing number of multinationals and local businesses. AIT is well placed to assist Asia’s human resource development needs.

By maximizing the potential of the AIT Center in Vietnam as an effective platform to meet large-scale national needs for education and training, AIT could generate greater interest among donor agencies to support similar centers in other Asian countries.

Through education and training, AIT could assist in the economic transformation of least developed countries in other parts of Asia. Initial contacts have been established with Mongolia and the Commonwealth of Independent States and proposals for future collaborations are being explored, based on a systematic assessment of needs and existing capabilities.

Bilateral aid with large components for education and training constitutes a rich prospect for AIT as a viable institution for training and education outside aid-recipient countries. The Institute’s participation in new bilateral aid programs should be closely studied.

Constant dialogues with donor and beneficiary countries provide a means for systematic coordination of HRD and institutional development efforts. The first in a series of such dialogues is scheduled in early 1994 and should be followed by similar exercises in the future.
### SUMMARY OF CONTRIBUTIONS (CASH AND KIND) FY 1992-93

#### Governments
- Austria: 0.15
- Brunei: 0.10
- Canada: 5.33
- People's Republic of China: 0.28
- Chinese Taipei: 4.28
- Finland: 2.30
- Hong Kong: 0.02
- India: 0.25
- Japan: 10.51
- Republic of Korea: 0.26
- Malaysia: 0.28
- Nepal: 0.04
- New Zealand: 0.32
- Norway: 2.70
- Pakistan: 0.48
- Philippines: 0.32
- Sweden: 3.35
- Switzerland: 3.82
- Thailand: 8.04
- United States of America: 3.95

#### European Community
- CEC: 4.15
- Belgium: 1.00
- Denmark: 1.92
- France: 4.01
- Germany: 9.15
- Netherlands: 1.36
- Spain: 0.41
- United Kingdom: 5.27

**Sub-total**: 75.19

#### International Organizations
- ADB: 3.67
- Commonwealth Secretariat: 0.15
- ESCAP: 0.15
- ESA: 0.22
- FAO: 0.16
- ICIMOD: 0.01
- ILO: 0.41
- IMO: 0.04
- IPR: 0.02
- ITU: 0.02
- IUCN: 0.19
- Mekong Secretariat: 0.17
- UNGHS: 0.30
- UNEDO: 0.10
- UNDP: 1.32
- UNFPO: 0.02
- UNEP-GRID: 0.68
- UNESCO: 0.07
- UNICEF: 0.07
- UNIDO: 0.09
- WHO: 0.01
- World Bank: 0.11

**Sub-total**: 8.18

### National Government Agencies
- **Austria**
  - Austrian Academy of Science: 0.04
- **Bangladesh**
  - International Atomic Energy Agency: 0.02
- **Bhutan**
  - International Center for Diarrhoeal Disease Research: 0.05
  - National Environment Secretariat: 0.04
- **Belgium**
  - Rijksuniversiteit Centrum Antwerpen: 0.11
- **Bhutan**
  - Ministry of Social Services: 0.06
  - Ministry of Trade and Industry: 0.02
- **Cambodia**
  - Guizer Services Australia: 0.01
- **Canada**
  - CUC: 0.09
  - IFIDC: 0.56
  - Oceans Institute of Canada: 0.08
- **Denmark**
  - Danish Hydraulic Institute: 0.03
- **Ethiopia**
  - Agricultural Extension Dept: 0.19
- **Finland**
  - Integrated Rural Development Project: 0.01
- **France**
  - IUP: 0.01
  - IFIDC: 0.56
  - Oceans Institute of Canada: 0.08
- **Germany**
  - German BHP/CHP National Committee: 0.11
- **Hong Kong**
  - Auxiliary Medical Science: 0.01
  - Civil Aid Services: 0.04
- **Indonesia**
  - Center for Science, Documentation and Information: 0.08
  - Dahezus University: 0.03
  - Dept. of Education and Culture: 0.05
  - Eastern Indonesian University Development Project: 0.16
  - Private Universities and Colleges: 0.08
  - Sutas Taisah: 0.02
  - Atma Jaya University, Yogyakarta: 0.07
- **Japan**
  - National Space Development Agency: 0.02
  - Laos, PDR: 0.05
  - Dept. of Forestry and Environment: 0.05
  - National Polytechnic Institute: 0.14
  - Malaysian Agricultural Research and Development: 0.01
  - Malaysian High Commission in Thailand: 0.07
  - Mara Institute of Technology: 0.02
  - Ministry of Education: 0.16
  - Sarawak Agricultural Development Project: 0.01
  - University Sains: 0.01
  - Urban Development Authority: 0.01
- **Nepal**
  - Dept. of Agriculture and Development: 0.03
  - Koshi Hills Development Program: 0.02
  - WECC: 0.06
- **Netherlands**
  - Agriculture University of Wageningen: 0.04
  - Delt Hydraulics Laboratory: 0.06
  - Netherlands Development Organization: 0.02
  - University of Twente: 0.01
- **Pakistan**
  - Fisheries Dept. - Punjab: 0.08
  - Punjab College of Business Administration: 0.03
- **Papua New Guinea**
  - Division of Health: 0.01
- **Philippines**
  - Advantist Development and Relief Agency: 0.01
  - Dept. of Science and Technology: 0.05
  - Mandal Agricultural Development Cooperative: 0.05
  - Manila Observatory: 0.01
  - FNC Energy Development Corp.: 0.01
- **Singapore**
  - Public Works Dept.: 0.01
- **Sri Lanka**
  - Central Bank of Sri Lanka: 0.04
  - Central Environmental Authority: 0.03
  - Divestern Agricultural Research Project: 0.04
  - Halton National Bank: 0.02
  - Institute for Construction Training and Development: 0.02
  - Institute of Workers Education: 0.01
  - Jansariya Trust Fund: 0.01
  - Ministry of Finance: 0.01
  - Ministry of Higher Education Implementation: 0.01
  - Ministry of Policy Planning: 0.02
  - Ministry of Reconstruction, Rehabilitation and Social Welfare: 0.02
  - Rural Development Training and Research Institute: 0.01
  - Rural Water Supply Sanitation Project: 0.01
  - Santevediya Management Training Inst.: 0.01
Business, Foundations, Private and Others

Argonite National Laboratory 0.15
Ariti Project - Padang, Indonesia 0.01
ATT Consultants Co. Ltd. 0.02
B.P. Exploration, Bangkok 0.02
Boboeks Enterprise, France 0.05
Bangkok Airco Ltd. 0.03
Bangkok Airways Co. Ltd. 0.02
B&B Ground Treatment Ltd. 0.01
Bruno Shell Petroleum Co. 0.01
Carr & Donald Associates, Bangladesh 0.04
Chayon Nonko Ltd, Feedmill Co. Ltd. 0.08
CPAC Concrete Products Co. Ltd. 0.02
Coffey International Ltd., Australia 0.03
Dekelo & Toche 0.11
Dutch Assisted Water Supply Sanitation Action Drainage 0.01
DPU DKI, Jakarta 0.01
Enfants de Entwicklung 0.01
Environmental Resources Ltd. 0.02
Economical Scholarship Program 0.09
Electric Telecomm Corp. Far East 0.29
Fudo Construction Co. Ltd., Japan 0.02
Fujix Xerox Co. Ltd. 0.02
International Development Consultancy Services, Sweden 0.05
Japan Engineering Consultants Co Ltd. 0.17
Kajima Corp., Japan 0.01
Kinjo Rubber Co. Ltd., Japan 0.03
Kojo Jiban Consultants Co. Ltd., Japan 0.06
Mitsubishi Land Development Co. Ltd. 0.21
Mott MacDonald Hong Kong Ltd. 0.44
Nippon Koei Co. Ltd. 0.09
Nishihara Environmental Sanitation Research Corp. 0.09
Norconsult International A.S. 0.09
Northwood Hydraulic Consultants Ltd. 0.16
Okumenisches Studierwerk E.V. 0.08
P.T. Anamah Widyatama Consultants 0.01
P.T. Arun Ni Co., Indonesia 0.01
P.T. Haniaam Dian Kosultas, Indonesia 0.40
P.T. Pupuk Kujang, Indonesia 0.02
P.T. Telkom, Indonesia 0.01
People’s Bank, Sri Lanka 0.02
Petron Corp., Philippines 0.02
Planverter Ltd., Nepal 0.07
Polygyl Geosynthetics (Thailand) Ltd. 0.26
Procter & Gamble Manufacturing (Thailand) Ltd. 0.14
Rangsit Plantation Management Co. Ltd. 0.01
Renon Co. Ltd. 0.01
Sahabriya OA Group, Thailand 0.02
Saint Louis Hospital, Thailand 0.01
Samari Project Consultant Co. Ltd. 0.02
San Miguel Corp. Philippines 0.01
Sarunggal Agriculture Co. Ltd., Philippines 0.01
Scot Counsell 0.05
Seagate Technology (Thailand) Ltd. Co. Ltd. 0.01
SGS Stewar Project Management Services 0.07
Shell Co. of Thailand 0.01
Shinshu Corporation Co. Ltd. 0.11
Shin-Nonnicho Co. Ltd., Japan 0.01
Siam Cement Co. Ltd. 0.06
Siam DHV Ltd. 0.01
Siam Tone Co. Ltd. 0.06
Sindhul Puliksong Consultant Co. Ltd. 0.04
Sintech Engineering Consultant Inc. 0.08
Smash, Paris, France 0.19
Soletanche (Thailand) Ltd. 0.01
Southeast Asia Foundation Co. Ltd. 0.01
Super Max Engineering Enterprise Co. 0.08
Sunatip Co. Ltd. 0.08
Spot Axiat Pte. Ltd. 0.03
Technolangsa Economist Sebn Bhd. 0.01
Technolabs Corp. Pte. Ltd. 0.02
Teknow Malaysia 0.01
Tenege National Bhd., Malaysia 0.01
Terre Des Hommes 0.01
Thaifarmers Bank 0.02
Thai Master Builders Co. Ltd. 0.02
Thunders & Associates Inc., Bhutan 0.01
Total Production and Production Co. 0.01
WG Athens International, UK 0.03

Aeon Group Environmental Foundation, Japan 0.35
Asia Foundation 0.02
Education and Cultural Welfare Foundation 0.02
Ford Foundation Inc. 0.24
Fubright Foundation 0.05
John F. Kennedy Foundation of Thailand 0.62
Kodanren (CBCC) 0.36
Ramon Abobil Foundation Inc., Philippines 0.01
Sasakawa Peace Foundation 0.27
Winrock International 0.18
AEEMTRC 0.02
AIT Alumni Association (Thailand) 0.08
Aisin-EEC Aquaculture Development 0.65
Bangladesh-Canada Agriculture 0.06
SacoR Team 0.06
Bhutan-Swiss Association for Development and Cooperation 0.03
Canada Tanzania Kwani Irrigation Project 0.01
Cere-Bangladesh 0.03
Cere-Philippines 0.01
Erba Hatakeyama Memorial Fund 0.01
Hовiges, Bhutan 0.03
Helpage International 0.69
India-Canada Cap. Office (OICC) 0.08
International Center for Ethnic Studies 0.01
Japan-Indonesia Science and Technology Forum 0.43
Lao-Swedish Forestry Project 0.01
Mernonite Central Committee 0.01
Pakistan-German Technical Training Program 0.02
Perebyrner Fellowship, Bangladesh 0.03
RHUCO/Asia 0.01
Save the Children Fund 0.03
Dr. Semsk Laeuadtrakul 0.02
South Pacific Commission 0.02
Sir Lankan-German Integrated Rural Development 0.01
Sver eventual, PAR 0.01
Technical Cooperation Facility 0.19
Vietnam-Sweden Forestry Cooperation Program 0.08
World Seismics Safety Institute 0.04
World Vision International 0.03
World Wildlife Fund, USA 0.04
Others 0.16

Sub-Total 8.21

TOTAL 100.09
CENTRAL ADMINISTRATION

Developments in computerization and international communications highlighted central administration achievements in 1993.

MIGRATION FROM MAINFRAME TO MINICOMPUTERS

The campus-wide shift from the mainframe computer to 2 VAX minicomputers was completed in 1993, with the migration of the financial system virtually problem-free. Computerized systems for payroll, personnel and personal income tax were also installed. Inventory accounting records were brought up-to-date. Concerned staff underwent training in the computerized financial system. Further training will be conducted in 1994.

The migration, supported by a minor re-organization of ASDU and Finance operations, facilitated data input, financial closings and report production.

Underway are the computerization of investment control, redesigning of the budget control system, and development of an account receivable program. An effective account receivable collection function, particularly with regard to donors and their respective MOUs, will also be developed.

General and project accounting and report production following specific formats, as well as the inputting of internal charges, will be improved.

INTERNATIONAL NETWORKING

The deployment of information technology resources and telecommunications infrastructure at the Institute significantly improved information access covering a wide range of topics. The Regional Computer Center put into place an efficient campus network, linking 750 computers. Faculty, staff and students now have full access to Internet resources worldwide, including e-mail, e-journals, academic discussion groups, public databases, and directory services. Particularly important is access to library systems world-wide, as well as to professional bulletin boards and other university information databases.

EXPANSION OF INTERNATIONAL COMMUNICATIONS SERVICE

In cooperation with the Communications Authority of Thailand (CAT), improved post and telegraph/international communication gateway services were made available on campus. Further improvements are being planned, based on the volume of after hours long distance calls and fax transmissions.

CAT is expected to build its own post and telegraph office building on campus. This will pave the way for the integration of the campus post office and the communications center.

ORGANIZATIONAL RESTRUCTURING

Major changes in central administration functions in 1993 resulted from the re-organization of Administrative Services, with the Director of Administrative Services transferred to the Development Office as Director for Development Planning, reporting to the Vice President for Development.

Related to the re-organization was the revision of certain functions in the offices for Human Resources Development, Government Relations, and Purchasing, which was given responsibility for travel and insurance administration.
CENTRAL ADMINISTRATION

CAMPUS DEVELOPMENT

Academic Buildings

At AIT, the construction of new academic buildings takes into account not only the Institute's current needs but also the future expansion of teaching, research and outreach activities.

To accommodate the complete move of the Industrial Engineering and Management Program from Academic Building 1 to the Chalerm Prakiat Building, an extension to the building will be built using the annual construction grant from the Royal Thai Government.

Also under construction is a biotechnology laboratory.

Housing

Adequate supply of residential accommodation for students in the next few years is assured with the opening of ST7 and ST8, two apartment blocks which provide more than 90 units, and the construction of Dormitory P Block for self-paying students.

Construction of the squash court was completed in 1993.

HUMAN RESOURCES DEVELOPMENT

Staff development and training programs carried out in 1993 included English and Thai language courses and training in computer applications. Seminars on topics of professional interest to the staff were conducted.

A standard overtime policy was established and studies on compensation for international and local staff were carried out.

Updating of job descriptions for direct-hire and local-hire staff is underway.

A goal for 1994 is the publication of a personnel manual and implementation of exit interviews with employees completing their service with the Institute. A special benefits scheme available to members of the Thai Social Security System is under study.

Over the years the development of the AIT campus has always been guided by the need to create a symmetrical and aesthetically pleasing landscape that will provide a convivial environment for study and leisure.
DISTRIBUTION OF AIT ALUMNI

Southeast Asia and Pacific
1. Brunei 9
2. Cambodia 5
3. Fiji 1
4. Indonesia 330
5. Laos 9
6. Malaysia 259
7. Maldives 1
8. Myanmar 104
9. Papua New Guinea 6
10. Philippines 671
11. Singapore 28
12. Thailand 1499
13. Vietnam 216

South Asia and West Asia
1. Afghanistan 26
2. Bangladesh 426
3. Bhutan 2
4. Egypt 1
5. India 458
6. Iran 12
7. Nepal 325
8. Pakistan 468
9. Sri Lanka 487
10. Turkey 6

East Asia
1. PRC 195
2. Chinese Taipei 706
3. Hong Kong 85
4. Japan 52
5. Republic of Korea 95
6. Macao 7

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

Stateless 1

AITAA Chapter Presidents

AUSTRALIA
Dr. Victor A. Palmasan (SICE '95)
Professor, School of Civil Engineering
University of New South Wales
New South Wales

BANGLADESH
Dr. Md. Nazrul Islam (WRE '71)
Associate Professor
Institute of Appropriate Technology
Bangladesh University of Engineering and Technology
Dhaka

BRUNEI
Mr. Yong Fok Fei (WRE '75)
District Water Engineer
Water Section, Public Works Department
Bandar Seri Begawan

CHINESE TAIPEI
Mr. George S. Y. Chen (CRD '71)
Director General, Highway Bureau
Taiwan

HONG KONG/MACAO
Mr. Ted T.C. Chan (CRD '75)
Managing Director, TESCO
Causeway Bay, Hong Kong

INDIA
Dr. Ashok Kumar Gupta (CRD '71)
Professor and Coordinator
Center of Transportation Engineering
University of Roorkee
Roorkee

INDONESIA
Mr. Marsiano Dirijanesoeproto (WRE '90)
Deputy Head Officer
Riau Development Coordinating Office
Ministry of Public Works
Jakarta
AITAA National Chapters have been established in 17 countries. Over the years, AITAA membership has been increasing. Up to 70% of the total AIT alumni body belong to the Association.

JAPAN
Mr. Yoshiki Shimizu (EE ’87)
Pipeline Engineering Department, ESD
Kawasaki Steel Corporation
Tokyo

REPUBLIC OF KOREA
Dr. Seung-Hwan Lee (EM ’75)
Professor
Department of Transportation Engineering, Ajou University
Suwon, Kyungki

MALAYSIA
Mr. Mat Lok Abdallah (EM ’84)
Assistant Director
National Productivity Center
Selangor

NEPAL
Mr. Pranod Sagar Singh Pradhan (CS ’82)
MENRIS, ICIMOD
Kathmandu

PAKISTAN
Mr. Iqidar A. Chaudhri (WRE ’64)
Managing Director
Delta Tyre and Rubber Co., Ltd.
Rawalpindi

PHILIPPINES
Mr. Edgar Ortiga (WRE ’76)
Vice President
DOCD Engineering Corporation
Metro Manila

SINGAPORE
Mr. Ho Siew-Koon (WRE ’71)
Senior Principal Engineer
Housing and Development Board
Singapore

SRI LANKA
Mr. W.J.S. Fernandes (ET ’82)
Deputy General Manager
(Generation Planning)
Ceylon Electricity Board
Colombo

THAILAND
Dr. Sorachit Thinaphong (WRE ’80)
Governor
Industrial Estate Authority of Thailand
Bangkok

USA
Dr. Rakesh Sarman (GE ’80)
Consulting Engineering Geologist
Woodward Clyde Consultants
Livonia, Michigan

November 1993
In 1993 the Executive Committee of the AIT Alumni Association (AITAA) sought to strengthen student interest in the Association, generate funding support for AITAA activities and operations, and promote alumni involvement in special projects.

**SUPPORT TO THE INSTITUTE**

The AITAA Governing Board, at its annual meeting in May 1993, passed resolutions in support of AIT’s institutional marketing and student recruitment activities. The AITAA Chapters have been approached to assist in the implementation of these activities.

The AITAA-organized gift drive to benefit the Institute marked its second year in 1993, raising over 20,000 Baht from various fund-raising activities conducted by the three graduating classes.

**SUPPORT TO ALUMNI**

To strengthen alumni interest in AITAA and to encourage contact between individual alumni, the AITAA Chapters conducted seminars by prominent senior alumni and organized field visits to places of professional interest. Under study is a proposed AIT alumni consultancy service.

**Endowment Fund**

In 1993, contributions to the AITAA Endowment Fund reached 340,245 Baht. Pledges amounting to 56,000 Baht were received. An intensified campaign to promote the Endowment Fund, which supports AITAA operations and research grants, is underway.

**AITAA INDUCTION CEREMONIES**

AITAA induction ceremonies, which are held every term for each graduating class, have increased AITAA membership, now accounting for 70 percent of the total number of alumni. These ceremonies also provide an opportunity to welcome honorary members and to recognize deserving alumni.

**Other Projects**

The criteria and nomination procedures for the Distinguished Alumni Award have been finalized and requests for nominations forwarded to individual Chapters. The first Awards are expected to be made in 1994.

A campaign to promote alumni participation in the AITAA Who’s Who was launched among the AITAA Chapters.

**SUPPORT TO STUDENTS**

In 1993 AITAA established a special project in honor of former AIT President, Prof. Milton E. Bender, Jr. The Milton E. Bender, Jr. Research Grant will be supported by an endowment fund for which an initial target of 150,000 Baht was set. The grant is intended to support one award annually. The first fund-raising event, a golf tournament held during Prof. Bender’s visit in March 1993, raised 50,000 Baht.

In 1993 AITAA research grants, valued at 8,000 to 15,000 Baht each, were awarded to nine students to augment research funds provided by AIT. Four recipients speak about their research on the opposite page.

**Career Placement Service**

AITAA assisted in the recruitment of AIT graduates by Bangkok Bank, Acer Computer (South Asia) Pte. Ltd., Acer-Sahaviriya, BisNews Asia, and other local companies. As further assistance, a special video produced by AITAA on career planning and development was made available to interested students.

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**AITAA PRESIDENCY**

Postal balloting for the election of a new AITAA President was carried out in 1993 to formalize the election of Mrs. Chuanph Dhamasiri, President of AITAA-Thailand Chapter, who was unanimously nominated to the post. The new President will succeed Prof. Srisakdi Charmonman. Mrs. Liita Austriaco was re-elected for a second term as Executive Secretary.

![Mrs. Chuanph Dhamasiri](image)
SMALL SCALE DAIRY PRODUCTION IN VIETNAM

Mr. Ton's Doctoral thesis in Agricultural and Food Engineering is on the feasibility of incorporating small-scale dairy production systems into existing farming systems in Ho Chi Minh City as a way of augmenting farm incomes. The study covers rainfed and irrigated farms in upper paddy land and upland areas. In rainfed farming two cows feed mainly with farm-grown forage and crop by-products can increase a farm's gross income by 60 to 65 per cent, with minor changes in the cropping pattern and the deployment of hired labour. In irrigated farming, the corresponding increase is 56 per cent.

EARTHQUAKES AND DAMS

Mr. Chin and Mr. Gunatileke are doing research in Geotechnical and Transportation Engineering.

Mr. Chin is investigating seismic hazards in North Vietnam, with particular attention given to Hanoi. "Vietnam is situated in the vicinity of two earthquake belts: the Mediterranean and West Pacific belts," says Mr. Chin, recalling the severity of the country's most recent earthquake in June 1983.

Mr. Chin has been collecting pertinent seismic data from three main sources: the National Geophysical Data Center in Colorado, the International Seismological Center in London and the Hanoi-based Seismological Department of the Vietnamese Institute of Geophysics. "Seismic zoning maps are indispensable to earthquake prediction and the design of earthquake-resistant structures," Mr. Chin points out. He hopes to produce such maps at the end of his research.

Mr. Gunatileke, 30, is studying the reservoir leakage problem of the Samanalaewa hydroelectric power project, which is located in the foothills of the central mountain range of Sri Lanka. The 450 meter-long dam is at the confluence of Walawe Ganga and its tributary, Belihul Oya, and has a net storage capacity of 300 cu.m. Constructed in early 1987, the dam suffered a severe leakage problem during the initial filling of the reservoir.

Mr. Gunatileke is investigating the reservoir's existing and potential leakage paths. His research will evaluate the effectiveness of remedial measures that have been adopted as well as those that are being proposed. Detailed field investigation will precede a geological mapping program and analysis of data collected from the project's consultants, contractors and design engineers.
### 1993 INSTITUTE ADMINISTRATION

#### SENIOR ADMINISTRATIVE OFFICERS
- **President**: Prof. Alastair M. North
- **Vice President for Academic Affairs**: Prof. Ricardo P. Pama
- **Vice President for Development**: Dr. Suvit Yodmani
- **Bursar**: Mr. Edward Mayer
- **Academic Secretary**: Dr. Roger Hawkey

#### DEANS OF SCHOOLS
- **Advanced Technologies**: Prof. A.B. Sharma
- **Civil Engineering**: Prof. Pisidhi Karasudhi
- **Environment, Resources and Development**: Prof. Karl E. Weber
- **Management**: Prof. Chongrak Polprasert (Associate Dean)
- ****: Prof. Jyoti P. Gupia (Director)

#### PROGRAM COORDINATORS
- **School of Advanced Technologies**
  - Computer Science
  - Industrial Engineering and Management
  - Telecommunications
  - Prof. Shunji Marai
  - Prof. P.C. Pandey
  - Mr. Tapio Erke

- **School of Civil Engineering**
  - Geotechnical and Transportation Engineering
  - Irrigation Engineering and Management
  - Structural Engineering and Construction
  - Water Resources Engineering
  - Dr. Yordphol Tanaboriboon
  - Dr. Yasuyuki Kono
  - Prof. Yukio Aoyagi
  - Prof. Ricardo Harboe

- **School of Environment, Resources and Development**
  - Agricultural and Food Engineering
  - Environmental Engineering
  - Energy Technology
  - Human Settlements Development
  - Natural Resources
  - Prof. Gajendra Singh
  - Prof. Dr. Wei-Han Su
  - Prof. R.H.B. Exell
  - Mr. H.D. Kammieer
  - Dr. Apisit Eiumnoh

#### CENTER DIRECTORS
- **Asian Disaster Preparedness Center**
- **Continuing Education Center**
- **Library and Regional Documentation Center**
- **Regional Computer Center**
- **Center for Language and Educational Technology**
- Mr. Terry Jeggle
- Dr. Nicanor C. Austriaco
- Ms. Darana Somboonskun (Acting)
- Dr. Charoon Chirapaisamkul
- Mr. William Savage (Chairman)
- Dr. Roger Hawkey
- Mr. Chamnake Ascharuttre (Jan-Sept 1993)
- Mr. Induruwage Rohitha Silva (Sept-Dec 1993)

#### STUDENT AFFAIRS
- **Dean of Student Affairs**
- **Student Union President**

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## Appendix

### 1993 BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>EC</th>
<th>Prof. D. W. George, AO (1996)</th>
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<td>PPC</td>
<td>Vice Chairman</td>
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<td>SRC</td>
<td>Former Vice-Chancellor</td>
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<td>University of Newcastle</td>
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<td>H. E. Mr. Blaise Godet (1996)</td>
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<td>The Hon. Cheng Hon-Kwan, OBE (1996)</td>
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<td>Prof. Fidelí Karasuhol (1995)</td>
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<td>Prof. Musharrif Hassan Khan (1994)</td>
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<td></td>
<td>Member</td>
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<td>University Grants Commission</td>
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<td>H. E. Mr. Willy Johan Fredriksen (1994)</td>
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<td>Dr. Thanat Khoman (1996)</td>
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<tr>
<td>PPC</td>
<td>Chairman</td>
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<td>HJC</td>
<td>Former Deputy Prime Minister</td>
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<td>FC</td>
<td>Royal Thai Government</td>
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<td></td>
<td>Adviser</td>
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<td>Mitsuihita Electric Industrial</td>
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<td>EC</td>
<td>Mr. Jeffrey L. S. Kow (1995)</td>
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<td></td>
<td>Chairman and Chief Executive</td>
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<td>China Trust Co., Ltd.</td>
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<td>Prof. Dina M. Lavole (1994)</td>
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<td></td>
<td>Professor</td>
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<td></td>
<td>School of Advanced Commercial</td>
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<td>SRC</td>
<td>Dr. Nguyen Hau Le (1996)</td>
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<td></td>
<td>Director, Global R &amp; D Team</td>
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<td>Bell Northern Research Ltd.</td>
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<td>SRC</td>
<td>Dr. Sung-Soi Lox (1996)</td>
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<tr>
<td></td>
<td>President</td>
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<td></td>
<td>Korea Advanced Institute of</td>
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<td>Science and Technology</td>
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<td>Suwon, Korea</td>
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<td>Dr. Somsak Leewadtrakul (1996)</td>
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<td>Chairman and Chief Executive</td>
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<td>SSP Group of Companies</td>
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<td>EC</td>
<td>Htt. Dr. Kuddr Shahi Mahat (1956)</td>
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<td></td>
<td>Vice Chairman</td>
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<td></td>
<td>National Planning Commission</td>
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<td>of Nepal</td>
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<td>Kathmandu, Nepal</td>
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<td>EC</td>
<td>Dr. Oscar B. Magua (Life Member)</td>
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<td></td>
<td>President</td>
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<td></td>
<td>Mapua Institute of Technology</td>
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<td></td>
<td>Manila, Philippines</td>
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</tbody>
</table>
Appendix

H. E. Mr. John Philip McCarthy (1995)
Ambassador Extraordinary and Plenipotentiary
The Australian Embassy
Bangkok, Thailand

EC
Mr. Sakon Navapun (1995)
Chairman
Navatee Group of Companies
Bangkok, Thailand

FPC
H. E. Mr. Jean-Marie Notflémin (1995)
Ambassador Extraordinary and Plenipotentiary
The Belgian Embassy
Bangkok, Thailand

EC
Prof. Alastair M. North (Ex-officio)
FPC
President
HDC
Asian Institute of Technology
EC
Prof. Ricardo P. Panna (Ex-officio)
FPC
Vice President for Academic Affairs
SRC
Asian Institute of Technology
EC
Mr. Anand Panprachanuk (1995)
Former Prime Minister of Thailand
Royal Thai Government
Bangkok, Thailand

EC
H. E. Mr. Arthur C. Ferran (1995)
FPC
Ambassador Extraordinary and Plenipotentiary
The Canadian Embassy
Bangkok, Thailand

EC
H. E. Barone Berthold von Pfeiten-Arabach
FPC
(1995)
Ambassador Extraordinary and Plenipotentiary
The Embassy of Germany
Bangkok, Thailand

Mr. Earl N. Phillips, Jr. (1995)
President
First Factors Corporation
North Carolina, USA

FPC
Dr. Wolf Presut (1995)
Deputy Director General (Asia)
Federal Ministry for Economic Cooperation
Germany

H. E. Mr. Jacques Rumwanhart (1996)
Ambassador Extraordinary and Plenipotentiary
The French Embassy
Bangkok, Thailand

SRC
Dato' Dr. Mohd Mansor Saleh (1994)
Director and Associate Professor
MARA Institute of Technology
Selangor, Malaysia

H. E. Mr. Eero Kalevi Sauvaa (1995)
Ambassador Extraordinary and Plenipotentiary
The Embassy of Finland
Bangkok, Thailand

PPC
Dr. Noorani Setabutr (1995)
Rector
Thammasat University
Bangkok, Thailand

EC
Prof. Hiroshi Shi-igai (1965)
FPC
Professor
SRC
Institute of Engineering Mechanics
University of Tsukuba, Japan

SRC
Dr. Soedjatmiko (1996)
Director
Institute of Agricultural Engineering
Ministry of Agriculture
Indonesia

Mr. Jean-Marcel Soulier (1995)
Chairman of the French Steering Committee
for AIT in Paris
Lausanne, France

PPC
Prof. Charas Suwanwela (1995)
EC
President
Chulalongkorn University
Bangkok, Thailand

Dr. Arun Thavano (1996)
Permanent Secretary
Ministry of Finance
Royal Thai Government
Bangkok, Thailand

EC
Dr. Virath Tansiri (1995)
Secretary-General
Office of the National Education Commission
Prime Minister's Office
Royal Thai Government
Bangkok, Thailand

EC
Dr. Phukhdi Uthavivikul (1994)
Former Minister of Science, Technology
and Energy
Royal Thai Government
Bangkok, Thailand

EC
Dr. Sree Unakul (1994)
Former Deputy Prime Minister
Royal Thai Government
Bangkok, Thailand

Dr. Prayun Phakpoddorn (Life Member)
Former Governor
Bank of Thailand
London, UK

Prof. Zhang Lie Wang (1994)
Director
Sase Education Commission
Beijing. People's Republic of China

Prof. Dayanthi Wijeyewickrama (1995)
Vice Chancellor
The Open University of Sri Lanka
Nugegoda, Sri Lanka

Dr. Haydn Williams (1995)
Former President
Asia Foundation
USA

Secretary: Dr. Roger A. Hawley
Asian Institute of Technology

Note
( ) End of current term of office
EC
Executive Committee
SRC
Student Relations Committee
FC
Finance Committee
PPC
Policy and Planning Committee
HDC
Honorary Degree Committee
FRC
Faculty Relations Committee

December 1993
Appendix

1993 LIST OF FACULTY MEMBERS

FULL TIME FACULTY

Paavo Alku
M.Eng. Lic. Tech. (Ph.D.),
D.Tech, Helsinki Univ. of Tech., Finland.
Assistant Professor, TC

A.T.M. Nurul Amin
B.A. (Hons.), M.A., Dhaka;
M.A., Ph.D., Maritoba.
Associate Professor, HSD

Haja H. Andranasolo
B.Sc; D.E.U., D.E.A., Paris VII;
Ph.D., Ecole Pratique des Hautes Etudes en
Sciences Sociales.
Assistant Professor, NR

Yukio Aoyagi
B.Eng., M.Eng., D.Eng., Univ. of Tokyo.
Professor, SEC

Ray W. Archer
B.A. (Hons), Sydney, M.R.A.P.I.
Professor, HSD

A.S. Balasubramaniam
B.Sc., Ceylon. Ph.D., Cambridge.
Professor, GTE

Dennis T. Bergado
B.S.C.E., Mindanao State; M.Eng., AIT;
Ph.D., Utah State.
Associate Professor, GTE

S.C. Bhattacharya
M.E., Roorkee; Ph.D., Cambridge.
Associate Professor, ET

Erik Bohez
M.Eng., State Univ., Ghent, Belgium.
Assistant Professor, IEM, CS

Ronald Boyle
B.A., Leicester, UK.; M.A., McMaster;
PGCE, London; M.Sc., Aston.
Assistant Professor, CLET

Xavier Ckea
M.Eng., AT;
Assistant Professor, ET

Surupong Chiraratantanon
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Fumihiko Nakamura
Assistant Professor, HSD
### Appendix

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pichai Nimityongkul</td>
<td>B.Eng., Chulalongkorn; M.Eng., D.Eng., ALT. Associate Professor, SEC</td>
</tr>
<tr>
<td>Athapol Neemborn</td>
<td>B.Sc., Kasetsart; M.Eng., Texas. Ph.D., Louisiana State. Associate Professor, AFE</td>
</tr>
<tr>
<td>Alastair M. North</td>
<td>B.Sc., Aberdeen; Ph.D., Birmingham. Chair Professor in Applied Science</td>
</tr>
<tr>
<td>Kaew Nuichawee</td>
<td>B.S., Chulalongkorn; M.S., Connecticut. Ph.D., Colorado State. Associate Professor, NR</td>
</tr>
<tr>
<td>Prinya Nualayay</td>
<td>B.A., M.S., Ph.D., Colorado. Professor, GTE</td>
</tr>
<tr>
<td>Timothy O'Farrell</td>
<td>M.Sc., Ph.D., Victoria Univ. of Manchester. Assistant Professor, TC</td>
</tr>
<tr>
<td>Stephen O. Ogundana</td>
<td>B.Sc., M.Sc., Ile, Nigeria. Ph.D., Loughborough, UK. Assistant Professor, SEC</td>
</tr>
<tr>
<td>Ricardo P. Pama</td>
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</tr>
<tr>
<td>P.C. Pandey</td>
<td>B.Sc., Eng., Banaras Hindu; P.G.Dipl., King's College; Ph.D., Notingham. Professor, IEM</td>
</tr>
<tr>
<td>Rene Parenteau</td>
<td>B.A., M.A., Laval; Ph.D., Univ. of Provence. Professor, HSD</td>
</tr>
<tr>
<td>Huy Nhac Phien</td>
<td>B.Sc., B.A., Hue; M.Sc., D.Tech.Sc., ALT. Professor, CS</td>
</tr>
<tr>
<td>Noppadol Phienwej</td>
<td>B.Eng. (Hons.), Chulalongkorn; M.S., Ph.D., Illinois, Urbana-Champaign. Associate Professor, GTE</td>
</tr>
<tr>
<td>Michael J. Phillips</td>
<td>B.Sc., Ph.D., Stirling. Associate Professor, AFE</td>
</tr>
<tr>
<td>Chongtrak Polprasert</td>
<td>B.Eng., Chulalongkorn; M.Eng., ALT; Ph.D., Washington. Professor, EE</td>
</tr>
<tr>
<td>K. Ramanathan</td>
<td>B.Sc. (Eng.), Ceylon. Post Grad. Dip. in Applied Stats., Colombo; M.Eng., D.Eng., ALT. Associate Professor, SOM</td>
</tr>
<tr>
<td>Lars I. Reutergardh</td>
<td>B.Sc., M.Sc., Ph.D., Stockholm. Associate Professor, EE</td>
</tr>
<tr>
<td>J.K. Routray</td>
<td>B.Sc. (Hons.); M.Sc., Utkal; M.R.P., I.I.T., Kanpur; Ph.D., Utkal. Associate Professor, HSD</td>
</tr>
<tr>
<td>R. Sadananda</td>
<td>B.E., Mysore; M.E., Roorkee; Ph.D., I.I.T., Kanpur. Associate Professor, CS</td>
</tr>
<tr>
<td>Khalid Saeed</td>
<td>B.Sc., Eng., U.E.T., Lahore; M.Eng., ALT; Ph.D., MIT. Professor, NR</td>
</tr>
<tr>
<td>Vilas M. Salokhe</td>
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</tr>
<tr>
<td>William Savage</td>
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</tr>
<tr>
<td>Hans Schroeder</td>
<td>M.Sc., Technical Univ. Denmark. Associate Professor, EE</td>
</tr>
<tr>
<td>Tian Ho Seah</td>
<td>B.Sc., London, Sc.D., MIT. Assistant Professor, GTE</td>
</tr>
<tr>
<td>N. Sharif</td>
<td>B.Sc., BUET: M.E.A., George Washington; Ph.D., Texas A &amp; M. Professor, SOM</td>
</tr>
<tr>
<td>A.B. Sharma</td>
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</tr>
<tr>
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<td>LL.B., London; Dip.Ed., Manchester. Assistant Professor, CLET</td>
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<tr>
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<td>B.Eng., M.Eng., D.Eng., Tokyo; M.Sc., Stanford. Associate Professor, GTE</td>
</tr>
<tr>
<td>R.M. Shrestha</td>
<td>B.E., M.S.U., Baroda; B.L., Tribhan; M.Eng., D.Eng., ALT. Associate Professor, ET</td>
</tr>
<tr>
<td>Gaajendra Singh</td>
<td>B.Sc.A.E., Partnagar; M.S., Rutgers; Ph.D., California (Davis). Professor, AFE</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Tril B. Susu</td>
<td>Drs., Bandung Inst. of Tech.; Ph.D., U.S.T.L., Montpellier. Assistant Professor, NR</td>
</tr>
</tbody>
</table>
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## ASIAN INSTITUTE OF TECHNOLOGY
### BALANCE SHEETS
**AS AT 30th JUNE, 1993 and 1992**

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<th>Unrestricted Current Fund</th>
<th>Restricted Fund</th>
<th>Capital Fund</th>
<th>Sponsored Program Fund</th>
<th>Agency Fund</th>
<th>Total</th>
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<td></td>
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<tr>
<td>Cash at banks</td>
<td>9,568,330</td>
<td>10,125,446</td>
<td>13,927,825</td>
<td>6,238,470</td>
<td>28,657,729</td>
<td>80,403,815</td>
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<tr>
<td>Advance duties and taxes</td>
<td>11,388,403</td>
<td>10,837,451</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Accounts receivable and accrued income</td>
<td>2,981,119</td>
<td>3,391,684</td>
<td>6,821,047</td>
<td>7,075,365</td>
<td>202,795</td>
<td>226,646</td>
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<tr>
<td>Deposits</td>
<td>639,593</td>
<td>622,393</td>
<td>141,326</td>
<td>189,407</td>
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<tr>
<td>Inventories</td>
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<td>967,099</td>
<td>801,413</td>
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<tr>
<td>Due from other funds</td>
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<td>-</td>
<td>98,080,800</td>
<td>27,502,094</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Fixed assets</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,119,762,196</td>
<td>1,319,341,201</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>42,200,289</td>
<td>41,410,709</td>
<td>381,188,683</td>
<td>320,719,998</td>
<td>1,504,546,214</td>
<td>1,379,321,903</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LIABILITIES AND FUND BALANCES</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>2,920,258</td>
<td>2,209,386</td>
<td>5,854,839</td>
<td>2,830,809</td>
<td>5,224,575</td>
<td>2,387,582</td>
<td>2,209,532</td>
<td>1,170,817</td>
<td>651,000</td>
<td>651,377</td>
<td>10,675,225</td>
<td>9,226,802</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deposits</td>
<td>768,316</td>
<td>683,300</td>
<td>1,159,216</td>
<td>956,962</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,324,562</td>
<td>1,642,792</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Due to other funds</td>
<td>-</td>
<td>366</td>
<td>99,090,000</td>
<td>27,502,094</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>99,090,000</td>
<td>27,502,094</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL LIABILITIES</strong></td>
<td>3,688,574</td>
<td>2,899,686</td>
<td>8,054,055</td>
<td>3,780,775</td>
<td>5,224,575</td>
<td>2,387,582</td>
<td>2,209,532</td>
<td>1,170,817</td>
<td>651,000</td>
<td>651,377</td>
<td>11,095,225</td>
<td>9,226,802</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FUND BALANCES</strong></td>
<td>6</td>
<td>38,514,715</td>
<td>38,514,715</td>
<td>276,271,788</td>
<td>289,439,383</td>
<td>1,189,323,223</td>
<td>1,367,936,141</td>
<td>74,673,775</td>
<td>80,560,145</td>
<td>66,464,247</td>
<td>40,293,037</td>
<td>1,945,446,708</td>
<td>1,816,718,291</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL LIABILITIES</strong></td>
<td>42,200,289</td>
<td>41,410,709</td>
<td>381,188,683</td>
<td>320,719,998</td>
<td>1,504,546,214</td>
<td>1,379,321,903</td>
<td>76,678,917</td>
<td>61,746,925</td>
<td>67,115,247</td>
<td>40,964,414</td>
<td>2,061,444,490</td>
<td>1,855,190,556</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

[Signature]

34
### Asian Institute of Technology

#### Statement of Changes in Fund Balances

For the Year Ended 30th June, 1993 (With Comparative Total for 1992)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>1993</th>
<th>1992</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted Current Fund</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>General</td>
<td>38,514,715</td>
<td>52,947,013</td>
<td>-14,432,298</td>
</tr>
<tr>
<td>Endowment</td>
<td>59,861,252</td>
<td>170,616,088</td>
<td>-110,754,836</td>
</tr>
<tr>
<td>General Reserve</td>
<td>1,519,941,201</td>
<td>10,392,299</td>
<td>1,509,548,902</td>
</tr>
<tr>
<td>Restricted Current Fund</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>General</td>
<td>14,711,491</td>
<td>14,711,491</td>
<td>0</td>
</tr>
<tr>
<td>Liquid Assets Unallocated</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Restricted</td>
<td>7,596,586</td>
<td>7,596,586</td>
<td>0</td>
</tr>
<tr>
<td>Liquid Assets Allocated</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Restricted</td>
<td>7,596,586</td>
<td>7,596,586</td>
<td>0</td>
</tr>
<tr>
<td>Repairs and Maintenance Reserve</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Program Fund</td>
<td>80,583,343</td>
<td>46,261,073</td>
<td>34,322,270</td>
</tr>
<tr>
<td>Agency Fund</td>
<td>18,675,281</td>
<td>16,918,351</td>
<td>1,756,930</td>
</tr>
<tr>
<td>Total</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>1993</td>
<td>158,757,264</td>
<td>158,757,264</td>
<td>0</td>
</tr>
<tr>
<td>1992</td>
<td>158,757,264</td>
<td>158,757,264</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adjustments</th>
<th>1993</th>
<th>1992</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount due to other fund</td>
<td>(66,690,000)</td>
<td>(66,690,000)</td>
<td>0</td>
</tr>
<tr>
<td>Disposal of assets</td>
<td>(13,289,231)</td>
<td>(13,289,231)</td>
<td>0</td>
</tr>
<tr>
<td>Amount due from capital fund to be reclassified as restricted fund</td>
<td>27,502,094</td>
<td>27,502,094</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additions</th>
<th>1993</th>
<th>1992</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excess of revenues over expenditures (expenditures over revenues)</td>
<td>927,432</td>
<td>11,762,781</td>
<td>-10,835,349</td>
</tr>
<tr>
<td>Investment income</td>
<td>1,206,218</td>
<td>14,711,491</td>
<td>-13,505,273</td>
</tr>
<tr>
<td>Government grants and appropriations</td>
<td>936,645</td>
<td>936,645</td>
<td>0</td>
</tr>
<tr>
<td>Gain (loss) on rate of exchange</td>
<td>- (20,000)</td>
<td>(20,000)</td>
<td>0</td>
</tr>
<tr>
<td>Miscellaneous income and contributors</td>
<td>- 100,249</td>
<td>- 100,249</td>
<td>0</td>
</tr>
<tr>
<td>Contribution in kind</td>
<td>- 19,657,619</td>
<td>- 19,657,619</td>
<td>0</td>
</tr>
<tr>
<td>Amount due from other fund</td>
<td>35,777,906</td>
<td>35,777,906</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deductions</th>
<th>1993</th>
<th>1992</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inter-fund transfer from (to)</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Restricted Current Fund</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>General Reserve</td>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
</tr>
<tr>
<td>Liquid assets capital fund</td>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
</tr>
<tr>
<td>Allocated</td>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
</tr>
<tr>
<td>Repairs and Maintenance Reserve</td>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
</tr>
<tr>
<td>Endowment</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>General</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>Cash</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>Kind</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>Other cost</td>
<td>- 307,167</td>
<td>- 307,167</td>
<td>0</td>
</tr>
<tr>
<td>Inter-fund transfer from (to)</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Amount due to other fund</td>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
</tr>
<tr>
<td>(307,167)</td>
<td>(307,167)</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Balances, 30 June 1993 (Note 6)</th>
<th>1993</th>
<th>1992</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted Current Fund</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>General</td>
<td>38,514,715</td>
<td>52,947,013</td>
<td>-14,432,298</td>
</tr>
<tr>
<td>Endowment</td>
<td>59,861,252</td>
<td>170,616,088</td>
<td>-110,754,836</td>
</tr>
<tr>
<td>General Reserve</td>
<td>1,519,941,201</td>
<td>10,392,299</td>
<td>1,509,548,902</td>
</tr>
<tr>
<td>Restricted Current Fund</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>General</td>
<td>14,711,491</td>
<td>14,711,491</td>
<td>0</td>
</tr>
<tr>
<td>Liquid Assets Unallocated</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Restricted</td>
<td>7,596,586</td>
<td>7,596,586</td>
<td>0</td>
</tr>
<tr>
<td>Liquid Assets Allocated</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Restricted</td>
<td>7,596,586</td>
<td>7,596,586</td>
<td>0</td>
</tr>
<tr>
<td>Repairs and Maintenance Reserve</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Program Fund</td>
<td>80,583,343</td>
<td>46,261,073</td>
<td>34,322,270</td>
</tr>
<tr>
<td>Agency Fund</td>
<td>18,675,281</td>
<td>16,918,351</td>
<td>1,756,930</td>
</tr>
<tr>
<td>Total</td>
<td>BAHT</td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>1993</td>
<td>158,757,264</td>
<td>158,757,264</td>
<td>0</td>
</tr>
<tr>
<td>1992</td>
<td>158,757,264</td>
<td>158,757,264</td>
<td>0</td>
</tr>
</tbody>
</table>
NOTES TO FINANCIAL STATEMENTS

TO THE BOARD OF TRUSTEES
ASIAN INSTITUTE OF TECHNOLOGY

We have examined the balance sheets of Asian Institute of Technology as at 30th June, 1993 and 1992, 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, 1993 and 1992, 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
22 October 1993

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
Appendix

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

<table>
<thead>
<tr>
<th></th>
<th>1993</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Time deposits with banks</td>
<td>151,049,058</td>
<td>187,939,433</td>
</tr>
<tr>
<td>Deposits with finance companies</td>
<td>273,641,523</td>
<td>183,661,365</td>
</tr>
<tr>
<td></td>
<td>424,690,581</td>
<td>371,600,798</td>
</tr>
</tbody>
</table>

The investments of each fund as at 30th June, 1993 and 1992 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>1993</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BAHT</td>
<td>BAHT</td>
</tr>
<tr>
<td>Unrestricted current fund</td>
<td>17,744,135</td>
<td>16,233,853</td>
</tr>
<tr>
<td>Capital fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>79,016,720</td>
<td>71,518,415</td>
</tr>
<tr>
<td>Endowment</td>
<td>61,743,108</td>
<td>59,562,588</td>
</tr>
<tr>
<td>General reserve</td>
<td>120,551,370</td>
<td>147,008,306</td>
</tr>
<tr>
<td></td>
<td>261,411,198</td>
<td>278,089,309</td>
</tr>
<tr>
<td>Liquid assets</td>
<td>60,746,536</td>
<td>35,096,883</td>
</tr>
<tr>
<td>Repairs and Maintenance reserve</td>
<td>1,952,182</td>
<td>7,916,357</td>
</tr>
<tr>
<td>Sponsored program fund</td>
<td>62,698,718</td>
<td>43,013,240</td>
</tr>
<tr>
<td>Agency fund</td>
<td>61,749,707</td>
<td>28,267,584</td>
</tr>
<tr>
<td></td>
<td>21,086,823</td>
<td>5,996,412</td>
</tr>
<tr>
<td></td>
<td>424,690,581</td>
<td>371,600,798</td>
</tr>
</tbody>
</table>

Time deposits with banks amounting to Baht 17 million (1992: Baht 12.8 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 8).
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, 1993 and 1992 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>1993 BAHT</th>
<th>1992 BAHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employees personal income tax</td>
<td>8,986,595</td>
<td>10,000,000</td>
</tr>
<tr>
<td>Import and tax duty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-Automobile</td>
<td>1,330,024</td>
<td>357,990</td>
</tr>
<tr>
<td>-Wine and spirits</td>
<td>769,484</td>
<td>471,856</td>
</tr>
<tr>
<td>-Other</td>
<td>-</td>
<td>7,604</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>11,086,103</td>
<td>10,837,450</td>
</tr>
</tbody>
</table>

NOTE 4 - FIXED ASSETS

<table>
<thead>
<tr>
<th></th>
<th>1993 BAHT</th>
<th>1992 BAHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus development</td>
<td>23,570,117</td>
<td>22,031,502</td>
</tr>
<tr>
<td>Buildings</td>
<td>624,267,020</td>
<td>491,864,096</td>
</tr>
<tr>
<td>Furniture and equipment</td>
<td>636,730,774</td>
<td>587,199,727</td>
</tr>
<tr>
<td>Library acquisitions</td>
<td>84,323,129</td>
<td>78,175,811</td>
</tr>
<tr>
<td>Construction in progress</td>
<td>41,871,066</td>
<td>139,770,065</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1,410,762,106</td>
<td>1,319,041,201</td>
</tr>
</tbody>
</table>

Depreciation for the year amounting to Baht 64,355,245 (1992: Baht 61,598,143) has not been recorded in accordance with the fund accounting concept.

NOTE 5 - CONTRIBUTIONS IN KIND - SERVICES

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 funds.

NOTE 6 - FUND BALANCES

<table>
<thead>
<tr>
<th></th>
<th>1993 BAHT</th>
<th>1992 BAHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>(5,787,305)</td>
<td>52,947,813</td>
</tr>
<tr>
<td>Endowment</td>
<td>61,974,185</td>
<td>59,861,252</td>
</tr>
<tr>
<td>General reserve</td>
<td>220,084,868</td>
<td>176,614,888</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>276,271,748</td>
<td>289,423,953</td>
</tr>
<tr>
<td>Capital Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed assets</td>
<td>1,410,762,106</td>
<td>1,319,041,201</td>
</tr>
<tr>
<td>Liquid assets - Unallocated</td>
<td>11,691,474</td>
<td>10,392,298</td>
</tr>
<tr>
<td>Liquid assets - Allocated</td>
<td>64,916,461</td>
<td>30,586,585</td>
</tr>
<tr>
<td>Repairs and Maintenance</td>
<td>1,952,182</td>
<td>7,916,357</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1,489,322,223</td>
<td>1,367,936,441</td>
</tr>
</tbody>
</table>

NOTE 7 - CAPITAL COMMITMENTS

As at 30th June, 1993, the Institute had capital commitments in respect of building construction amounting to approximately Baht 31 million (1992: Baht 9 million).

NOTE 8 - BANK GUARANTEES

As at 30th June, 1993, there were outstanding bank guarantees of approximately Baht 12.5 million (1992: Baht 1.2 million) issued by the bank on behalf of the Institute in respect of certain performance bonds as required in the normal course of activities of the Institute.
## Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB</td>
<td>Asian Development Bank</td>
</tr>
<tr>
<td>AEEMRC</td>
<td>ASEAN EC Energy Management Training and Research Center</td>
</tr>
<tr>
<td>CEC</td>
<td>Commission of the European Communities</td>
</tr>
<tr>
<td>CIDA</td>
<td>Canadian International Development Agency</td>
</tr>
<tr>
<td>CUC</td>
<td>Canadian University Consortium</td>
</tr>
<tr>
<td>DTEC</td>
<td>Department of Technical and Economic Cooperation, Thailand</td>
</tr>
<tr>
<td>EC</td>
<td>European Community</td>
</tr>
<tr>
<td>EGAT</td>
<td>Electricity Generating Authority of Thailand</td>
</tr>
<tr>
<td>ESA</td>
<td>European Space Agency</td>
</tr>
<tr>
<td>ESCAP</td>
<td>Economic and Social Commission for Asia and the Pacific</td>
</tr>
<tr>
<td>FAO</td>
<td>Food and Agriculture Organization</td>
</tr>
<tr>
<td>GRID</td>
<td>Global Resources Information Database</td>
</tr>
<tr>
<td>ICIMOD</td>
<td>International Center for Integrated Mountain Development</td>
</tr>
<tr>
<td>IDRC</td>
<td>International Development and Research Center, Canada</td>
</tr>
<tr>
<td>IMO</td>
<td>International Maritime Organization</td>
</tr>
<tr>
<td>ILO</td>
<td>International Labour Organization</td>
</tr>
<tr>
<td>INDEVELOP</td>
<td>International Development Consultant Services, Vietnam-Sweden Health Cooperation Program</td>
</tr>
<tr>
<td>ITU</td>
<td>International Telecommunications Union</td>
</tr>
<tr>
<td>IRRI</td>
<td>International Rice Research Institute</td>
</tr>
<tr>
<td>IUCN</td>
<td>International Union for the Conservation of Nature</td>
</tr>
<tr>
<td>KEIDANREN</td>
<td>Federation of Economic Organizations, Japan</td>
</tr>
<tr>
<td>KU</td>
<td>Kasetsart University, Thailand</td>
</tr>
<tr>
<td>KMIT</td>
<td>King Mongkut's Institute of Technology, Thailand</td>
</tr>
<tr>
<td>PNOC</td>
<td>Philippine National Oil Company</td>
</tr>
<tr>
<td>RHUDO</td>
<td>Regional Housing and Urban Development Office, USAID</td>
</tr>
<tr>
<td>UCLES</td>
<td>University of Cambridge Local Examinations Syndicate</td>
</tr>
<tr>
<td>UNCHS</td>
<td>United Nations Commission for Human Settlements</td>
</tr>
<tr>
<td>UNIDO</td>
<td>United Nations Industrial Development Organization</td>
</tr>
<tr>
<td>UNDP</td>
<td>United Nations Development Program</td>
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<tr>
<td>UNDRO</td>
<td>United Nations Disaster Relief Organization</td>
</tr>
<tr>
<td>UNEP</td>
<td>United Nations Environment Program</td>
</tr>
<tr>
<td>UNESCO</td>
<td>United Nations Educational, Scientific and Cultural Organization</td>
</tr>
<tr>
<td>UNICEF</td>
<td>United Nations Children's Fund</td>
</tr>
<tr>
<td>WECS/NEA</td>
<td>Water and Energy Commission, Secretariat/Nepal Electricity Authority</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
</tbody>
</table>

## 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
- RERIC: Regional Energy Resources Information Center
- ENSIC: Environmental Sanitation Information Center
- IFIC: International Ferrocement Information Center
- AGE: Asian Geotechnical Engineering Information Center
- MOTIC: Management of Technology Information Center