Administration

President
Prof. Said Irandoust (as of 1 July 2005)
Prof. Mario T. Tabucanon (acting president until 30 June 2005)

Vice Presidents
Prof. Peter Haddawy, Academic Affairs
Prof. Sudip Rakshit, Research
Prof. Vilas Wuwongse, External Relations
Dr. Khin Ni Ni Thein, External Relations

Deans
Prof. Worsak Kanok-Nukulchai
Prof. Sivanappan Kumar
Prof Chongrak Polprasert
(Dean SERD and Acting Dean SCE until 31 October 2005)
Prof. Indra M. Pandey (as of November 2005)
Prof. M. Nazrul Islam (Acting Dean until October 2005)
Dr. Jonathan Shaw

School of Engineering and Technology
School of Environment, Resources & Development
School of Environment, Resources & Development
School of Civil Engineering
School of Management
School of Management
Director, AIT Extension

Chief Internal Auditor
Prof. Neelakantan Ramachandran

Chief Financial Officer
Mr. Ng Eng Wan (until October 2005)

Director, AIT-Vietnam
Prof. Nguyen Cong Thanh

Director, Swiss-AIT-Vietnam Management Development Program
Dr. Hans Stoessel

Directors
Prof. Kanchana Kanchanasut
Mr. Matthew Laszewski
Mr. Benjamin Gargabite (until June 2005)
Mr. Sanjeev Jayasinghe (until December 2005)
Dr. Chaiyaphol Kaewprakaisaengkul (until April 2005)
Ms. Kalchana Nettayawichit

Internet Education and Research Laboratory
Language Center
Admissions and Scholarship
Promotion Activities
Physical Plant
Human Resources

Associate Registrar for Student Affairs
Dr. Anila Sadananda (until October 2005)
Ms. Ann Lopez - Fontanilla (as of November 2005)

Associate Registrar for Community Affairs
Dr. Hoang Le Tien (until October 2005)
Ms. Izel Ann Mojado-Dante (as of November 2005)

Institute Secretary & Coordinator, Executive Committee
Mr. Karma Rana
Dr. Hoang Le Tien (as of November 2005)

Head, Student Affairs
Head, Research
Head, ERCO

Head, Infrastructure
Head, Finance
Mr. Ng Eng Wan (as of November 2005)

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The Board of Trustees  
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The year 2005 has been one of transition with the appointment by the Board of Trustees of the new president, Prof. Said Irandoost, who took office 1 July. In the 47 years since its inception, AIT has grown into the leading regional postgraduate institute it is today, and I share along with the entire Board of Trustees, the confidence in the leadership of the new president in taking AIT to even greater achievements and accomplishments in the coming years.

On behalf of the board and members of the AIT community, I also wish to take this opportunity to express my sincere thanks and appreciation to Prof. Mario Tabucanon for having ably served as both provost and acting president during the interim period from January to June 2005, which has helped ensure a smooth transition.

The year 2005 has been a challenging one for AIT in many respects. Under the rapidly changing landscape of higher education in the region and worldwide as well as decline in the direct funding available from donors and partners, it will become even more important for the institute to critically examine and adapt itself to the changing environment. I wish to credit President Irandoost for his able leadership and for having already made a significant impact in a relatively short period of time. I feel that there is now a strong sense of solidarity and purpose among members of the community and realization of the challenges that lie ahead and commitment to continue AIT's fine tradition of service to the region.

Education serves as the key for social progress and development of the entire region, and what is unique about AIT is that it symbolizes not only international cooperation, but partnership. The international nature of AIT is something unique, of which we can all be proud. While taking a proactive stance in technology development, we should never forget to pay attention to developing people into socially responsible citizens with the same intensity we give to developing new technologies. This moral component of education is one of the foundations of mankind and a most valuable asset of traditional methods of education that we must preserve as we expand our horizons to meet the challenges of today's changing world. In this context, the institute to me is a nursery for future leaders of our countries, towards working harmoniously and cooperatively with leaders of other nations. I believe that this interaction of the young students will do well for the future peace, cooperation, understanding and harmony in the region and in the world.

As AIT embarks on its next half century of service to the region, many challenges lie ahead, and with every challenge comes an opportunity. As chairman of the Board of Trustees of the Asian Institute of Technology, I would like to thank the members of the board, faculty, staff, students, alumni, partners and friends for their valuable contributions over the course of the year. Their dedication and continued support keeps the institute dynamic and ready to take on future challenges.

Anand Panyarachun  
Chairman  
Board of Trustees  
Asian Institute of Technology
I would first of all like to express my sincere thanks and gratitude to the AIT Board of Trustees and AIT community for their trust and confidence in me and for giving me the opportunity to serve as president of this great institution, which has been at the service of the Asian region for the past five decades.

During my interactions with the board as part of the selection process, I have repeatedly stressed that my priorities would be within the areas of research capacity development with respect to both AIT and the region, development of university structures to better support a flexible learning environment, quality development of both administration processes and education/research outcomes, and development of new entrepreneurial initiatives in addition to activities aiming at strengthening the fund raising to ensure long-term financial stability of AIT.

The institute has been in a transitional period during this year, with the departure of Prof. Mario Tabucanon as acting president and my appointment as president in July 2005. Although it has only been a very short period into my presidency, I have tried my best to work toward increasing the happiness at AIT by acting for the development of cultural and mutual respect and trust, communication, presence and encouraging participation. I have reaffirmed my commitment to the community that my leadership will be based on mutual respect, openness and transparency.

One of the first important tasks that I undertook was setting up my administrative structure and team. Members of the AIT community and alumni were invited to assist in the identification of suitable candidates for the vice presidents, school deans and director AIT Extension positions. Candidates were invited to present their manifestos in open hearings to the AIT community, which was a first for AIT and innovative and bold in its approach even in the context of the region, in terms of the level of participation and transparency. There were live broadcasts of the hearings and largest ever recorded participation in the history of AIT by alumni and other members from Asia, Europe and America.

A similar process was also undertaken for the selection of the administrative office heads. The primary objective was a minimal administration of the highest possible quality, in order to allocate as many of our resources as possible to core activities: research, education and outreach.

“AIT towards excellence” will be the motto under my presidency, and to this end AIT’s future development is dependant upon the commitment of every individual faculty member, staff member, student and alumnus. I wish to thank all of you for your efforts over the past year. We have embarked on various new activities and initiatives and are eagerly looking forward to a new and exciting year ahead during which we will be further strengthening and developing our educational, research, training and other collaborative activities with our partners for the betterment of the region.

Said Irandoust
President
Asian Institute of Technology
The presidency of the Asian Institute of Technology formally passed from Acting President Mario Tabucanon to Prof. Said Irandoust in a handover ceremony held at the AIT Conference Center on 28 June 2005.

The occasion was marked by an Academic Colloquium called “AIT - Past, Present and Future,” and also included the passing of the Chairmanship of the Executive Committee from Ambassador Jan Axel Nordlander, now director general of the Department for Consular Affairs and Civil Law, Ministry for Foreign Affairs, Sweden, to H.E. Mr. Laurent Aublin, Ambassador of France to Thailand. The handover ceremony was the first in the history of AIT.

The ceremony followed a farewell reception five days earlier, hosted by H.E. Mr. Anand Panyarachun, chairman of the AIT Board of Trustees, given in honor of Prof. Tabucanon’s six months of service as acting president.

In his acceptance speech, Prof. Irandoust spoke of working for system openness, mutual respect, compromise and encouragement of risk-taking. He noted AIT’s global cultural awareness, cross-cultural communication, the value of multicultural education, regional initiatives and efforts toward sustainable development.

Prof. Irandoust emphasized a commitment to improving the quality of research at AIT, and he spoke of a need to recognize and collaborate with other sources of knowledge production. He also emphasized research at the interface of fields and interdisciplinary, inter-institutional teamwork.

In his first presidential address to the community, he presented his ideas on leading AIT: “My leadership...”
will be based on collective understanding and competency for dealing with the organization’s tasks and on strategic long-term planning. As someone once said, ‘People do not plan to fail, they simply fail to plan.’ I will try my best to avoid being egocentric, or selfish, and will try hard to allow others to grow by giving colleagues and students responsibilities. I will try my best to work for increasing the happiness at AIT by acting for development of cultural and mutual respect and trust, communication, presence and encouraging participation. I am also in favor of flexible, simple and transparent structures and leadership. I am in favor of boundary-less, team-oriented, organizational structure, people-oriented and outcome-oriented structures. I will work for a system with a minimal administration of highest possible quality, in order to allocate as much as possible of our resources to core activities, being research, education, and outreach activities.”

Scenes from the academic colloquium.
Tsunami disaster sparks yearlong research, debate, discussion

In early 2005, the tsunami that had claimed the lives of more than 250,000 in the Indian Ocean region in December 2004 dominated not only the news headlines, but activities of AIT experts as well. Here are a few ways in which AIT responded:

• Less than two weeks after the disaster, a team of experts from AIT visited the tsunami affected areas in southern Thailand to map the damage, manage the disaster and assess the environmental and societal development.

• AIT hosted a presentation of this teams findings. The seminar was attended by the ambassadors of Indonesia, Sri Lanka and Bangladesh, as well as representatives from the Royal Thai Government, international organizations, partners of AIT, alumni and members of the AIT community.

• In March experts in Japan and at AIT made presentations, exchanged their views and perspectives on the tsunami and the masses’ response to it at a distance lecture session called “The Tsunami Disaster and its Prevention.” The session was made available through remote interaction via satellite and is part of the i-Space e-learning program between AIT, the University of Tsukuba, Japan and the Multimedia University of Malaysia.

• In May, Prof. Nobuo Shuto, a world renowned expert on tsunamis lectured on “Tsunamis: Their Coastal Effects and Defense Works.”

• Leading scientists and experts around the world gathered in June for a regional symposium the tsunami, its impact and recovery, which was organized by AIT. The symposium
Honorary doctorate conferred

AIT conferred the degree of Doctor of Technology (honoris causa) on H.E. Prof. Xu Guanhua, Minister of Science and Technology, People’s Republic of China at a ceremony in Beijing on 15 May 2005. H.E. Prof. Xu Guanhua, is recognized for his key role in advancing the relations between AIT and China. On a later visit to AIT, H. E. Prof. Xu met with the president and deans and indicated that he would do all that he could to promote AIT in China, with the help of the Ministry of Education.

Notable agreements signed

Pakistan – A 7 January agreement with Pakistan’s Higher Education Commission provides higher education opportunities for Pakistani professionals. The program will constitute 30 students to be sent to AIT annually for a period of five years for master’s degree programs.

TISTR – AIT and the Thailand Institute of Scientific and Technological Research formalized its ties through an MoU signed on 10 January. The AIT-TISTR accord is expected to spur related activities for a graduate development program.

Electricity of Vietnam – Under an MoU signed on 24 February in Hanoi, Electricity of Vietnam will endeavor to send qualified candidates to follow AIT postgraduate programs.

Vietnam MOET – Under a 14 March MoA, the Vietnamese Ministry of Education and Training (MOET) will provide 25 scholarships for Vietnamese students under the two-stage masters program in Industrial Systems Engineering, Information Technology and Environmental Technology and Management, as well as several scholarships to Vietnamese candidates who have

was organized with partners in Asia and North America.

• In November two of the world’s top experts on tsunamis visited AIT students. Dr. W. Dudley, a professor of oceanography at the University of Hawaii at Hilo and Dr. J. Goff from the National Institute of Water and Atmospheric Research at Christchurch, New Zealand emphasized the importance of research on the sediments deposited by tsunamis, which can shed light on past tsunami history and future tsunami risk. From these sediments scientists are able to learn where tsunamis occur, how often they occur and how strong they are.
passed the national examinations and have chosen AIT for their graduate programs.

**ADPC** – A 23 March MoU with the Asian Disaster Preparedness Center (ADPC) aims to have mutual areas of academic and operational interests in several thematic areas of disaster management: climate variability and change, disaster risk management in Asia and applications of space technology and information and communication technologies for disaster risk management in Asia.

**LCWU** – An 18 April accord with Lahore College for Women University (LCWU) in Pakistan aims to provide human resource development capacity building needs to LCWU faculty through AIT’s master’s degree program, full-time doctoral programs and non-resident Ph.D. programs for three candidates and short-term training programs for six through 2008.

**Thailand MOE** – AIT and the Ministry of Energy (MOE), in honor of Her Majesty Queen Sirikit’s 70th birth anniversary launched on 30 May the Human Resource Development in Energy Project. The project provides scholarships from the Energy Conservation Promotion Fund to support human resource development in Energy and Energy-related Environmental studies at AIT.

**Thammasat-NSTDA** – A 10 June agreement with Thammasat University and the National Science and Development Agency (NSTDA) launched the first-ever academic cooperation among the three Pathumthani institution neighbors. The MoUs cover academic cooperation through the exchange of scholars/experts, sharing of resources and facilities, sharing of materials and information, joint research projects, development of joint academic activities and educational linkages among others. The three institutions will also foster relationships through the strengthening of inter-institutional cooperation through cultural, sports and other related activities.

**UNEP** – A 20 June MoU with the United Nations Environment Programme renewed for three years collaboration to enhance and increase joint implementation of activities in the area of environment and sustainable development. These activities will be carried out through the Regional Resource Center for Asia and the Pacific, which is based on the AIT campus.

**Shivaji University** – On 6 July AIT and Shivaji University, Kolhapur, India, established a five-year cooperation program that includes collaborative research, student exchange and faculty exchange.
RH Princess Maha Chakri Sirindhorn, an AIT alumna and honorary doctorate holder, graciously visited AIT booths at two events and granted a Royal Audience during the month of November. Princess Sirindhorn on 15 November at Chitralada Palace, graciously granted a Royal Audience to 24 AIT students who are recipients of HM the King’s and HM the Queen’s scholarships for the academic year 2004-2005.

The students were accompanied by Prof. Said Irandoust, AIT president; Prof. Peter Haddawy, vice president for education; Prof. Sudip Rakshit, vice president for research; Prof. Vilas Wuwongse, vice president for external relations; Prof. Worsak Kanok-Nukulchai, RTG faculty representative; Mrs. Wannapa Pliansri, RTG coordinator and Ms. Wilailuk Yooprem of the RTG Office. Provided by Their Majesties every year, the scholarships each cover the full tuition and registration fees as well as provide a bursary for living expenses.

On 8 November, the Princess presided over the opening ceremony of the 8th German Technology Symposium & Exhibition (GTS ’05) and visited the AIT exhibition booth and graciously acknowledged and received from Prof. Irandoust three copies of Digital Library collection of rare 100 Thai books jointly developed by AIT and the National Library of Thailand. Her Royal Highness was also greeted by Prof. Vilas, Dr. Barbara Igel of the School of Management, and Mr. Anupam Das, senior program associate, SOM.

At the opening ceremony of the Bio Thailand 2005: Challenges in the 21st Century exhibition on 2 November, the Princess had a conversation with the AIT delegation and encouraged AIT to collaborate with the Chulachomklao Royal Military Academy in the areas of water pollution control, solid waste management, and food processing.

2005 year-end institute forum

Prof. Said Irandoust, AIT president, led the members of the administration to present the administration’s initiatives and implementations during the first six months under the new AIT management at a 2005 Year-End Institute Forum held on 14 December 2005.

The presentation included:

• Challenges and strategies, focus and development of strong and strategically important areas, a five-year strategic development plan, visits to fields of study by the president and vice presidents
• Financial update and forecast
• Human resources short- and long-term strategies
• Initiatives, ongoing and completed tasks on education, research, and external relations
• President’s external contacts and meetings July to December 2005.
Notable lecturers hosted

Throughout 2005, AIT hosted a number of notable lecturers. From Pakistan’s prime minister and 10 Nobel laureates to AIT’s own notable alumni, the AIT community was enriched with a variety of topics from impressive speakers.

- H.E. Mr. Shaukat Aziz, Prime Minister of the Islamic Republic of Pakistan delivered a special lecture on 10 May on “Pakistan’s Vision in the Twenty First Century.”
- On 5 January, Nobel Physics laureate Prof. Robert C. Richardson, a professor of Physics at Cornell University, USA, gave lecture on “Training scientists for the future: How to inspire people who will solve the world’s problems in the 21st century.”
- On 7 January, 1987 Nobel Chemistry laureate Prof. Jean-Marie Lehn, a professor at the College de France in Paris and laboratory director at the University Louis Pasteur in Strasbourg, lectured on “Science and society: some reflections.”
- On 10 January, 1979 Nobel Physics laureate Prof. Sheldon L. Glashow, a professor of Physics at Boston University, USA, gave a lecture on “How basic science drives technological progress.”
- On 27 January, 1996 Nobel Peace Prize laureate H.E. Mr. Jose Ramos-Horta, Timor-Leste’s senior minister and minister for Foreign Affairs and Co-operation, gave a lecture on “The Unipolar World - Can the U.S. lead?”

Sawasdee! Students from the AIT Community School and the Pakistani community welcome H.E. PM Shaukat Aziz to deliver a special lecture.
• 1995 Nobel Chemistry laureate Prof. Mario J. Molina was the lecturer-opener in March 2005 on the 2nd and final “Bridges” event series held at the AIT Conference Center, AIT. He lectured on 8 March 2005 on the topic “The impact of human activities on the chemistry of the atmosphere.”

• Prof. Peter Agere, who was awarded the 2003 Nobel Prize for Chemistry, shared with Prof. Roderick MacKinnon, lectured on 15 March on the topic “Science and the protection of human rights.”

• Prof. Jerome L. Friedman, a professor at the Massachusetts Institute for Technology, USA, and a Nobel laureate for Physics in 1990, lectured on 17 March on the topic “Science: A bridge to peace.”

• Nobel laureate Baruch S. Blumberg was the lecture-ender in March on the second and final “Bridges” event series. His lecture was held on 21 March on the topic “Science and its relevance to international cooperation and a peaceful society.” Prof. Blumberg is a Distinguished Scientist at Fox Chase Cancer Center, Philadelphia, USA, and professor of Medicine and Anthropology at the University of Pennsylvania. He was awarded the Nobel Prize in Medicine for discoveries concerning new mechanisms for the origin and dissemination of infectious diseases.

• Dr. Subin Pinkayan, AIT alumnus (WRE’ 61) and chairman, SEATEC Group of Companies gave a lecture on 21 February marking the AIT Prominent Alumni Lecture Series debut at AIT. Dr. Subin, also an honorary advisor to the GMS Power Public Company Limited in Bangkok, lectured on the topic “Some Experiences of Hydro Power Development in the Greater Mekong Sub-region.”

• Prof. Dr. Rodolfo C. Undan, AIT alumnus (WRE’ 69) and president, Central Luzon State University, Philippines, lectured on 20 May on the topic of “Irrigation Water Management for Sustained Agricultural Productivity in Asia.”

• Mr. Shih-Yi George Chen, AIT alumnus (TE ’72) and division convener of Sustainable Development Division, National Policy Foundation and board director of the China Road Federation, lectured on 17 October on “Sustainable Transportation Development in Taiwan Area.”

• Khunying Porntip Rojanasunan, MD, one of Thailand’s independent, outspoken, and leading authority in forensic pathology conducted an extramural lecture on 13 December. The event entitled “Has the impact of December 26, 2004 receded with the waves?” was organized by AIT and the Asian Disaster Preparedness Center (ADPC).
Academic Developments in Year 2005 endorsed by the Academic Senate

Upon the completion of the term of the previous Academic Senate under the chairmanship of Prof. Tawatchai Tingsanchali, Prof. Stephen Ogunlana was elected as the chairman on 18 May 2005, following which newly elected members constituted the two standing committees of the Academic Senate, namely; Academic Development Review Committee and the Doctoral Progress Review Committee.

The major academic developments that were endorsed by the Academic Senate during the year 2005 are:

- **Flexible master’s degree program related to wetland and aquatic resources management**
  
  Natural or man-made environmental changes cause negative impacts on aquatic resources, which are utilized by the poorest groups in Asia. The negative factors include over-fishing, use of illegal fishing gear, introduction of exotic fish, misuse of chemicals, and agro-industrial waste discharge. Indirect impacts arise from deforestation leading to increased turbidity of water, siltation, breeding ground destruction and dam construction that can lead to blocking of migratory pathways.

- **Two-stage master’s program in Information Management specialized in finance and banking**
  
  As a two-stage master’s program, Stage 1 (July 2005 to May 2006) takes place in AITCV in Ho Chi Minh City, and Stage 2 (May 2006 to May 2007) in AIT Bangkok, Thailand.

- **Master’s and doctoral program in Information and Communication Technologies**
  
  Information and Communication Technologies are an interdisciplinary area of study encompassing all of the areas in Telecommunications and Computer Science and Information Management fields of study.

- **Hydropower Engineering**
  
  The Hydropower Engineering area of specialization was launched at AIT’s School of Civil Engineering to lure its first batch of enrollees in the August 2005 semester. The program was a result of the AIT’s partnership with Electricity Vietnam signed in 2003.

  The area of specialization falls under the umbrella of Water Engineering and Management field of study. A master’s degree in Hydropower engineering will lead students to an understanding of the complexity of water use, hydropower generation, and water resources management problems. The curriculum incorporates elective courses on control and automation technologies, design and management hydropower structures, as well as geotechniques in hydropower projects and integrated water resources management.

To enable local institutions to reduce these emerging threats on sustainable use of aquatic resources, AIT launched a flexible master’s degree program in Wetland and Aquatic Resources Management to strengthen students in participatory problem solving approaches and integrated resources management options. The degree program targets students who want to study at AIT while working in their own institutions or development projects.
Discussions on academic reforms in 2005 allowed the following developments:

- Establishment of an Institute Education Council was formed to assist the vice president for academic affairs in formulation, coordination and implementation of initiatives in education. The council includes representation from the schools, extension, student office and the Student Union.

- The requirement to take at least two credits of institute-wide courses for the master’s program was abolished effective January 2006 intake. Institute-wide courses would then be an option to students.

- The dismissal policy due to non-submission of progress reports was revised, and the regulation on automatic dismissal due to failure to satisfy the conditions set by the Tribunal of Appeals on Senate-dismissed students was confirmed.

- New online student course evaluation system run by and maintained by the Registry office.

New Areas of Specialization

- **Automotive Manufacturing Engineering** is expected to commence in August 2006. Thailand currently ranks as the 15th world’s highest producer of cars – with a current production capacity of 750,000. This is envisioned to increase to 1,800,000 by 2010, a development that would position Thailand among the top ten automobile producers. With this big demand, the automobile industry in Thailand would need people who have the knowledge and experience and this is where Design and Manufacturing Engineering sees itself coming in.

- **Certificate Program in DME/ISE with specialization in ‘Rapid Product Realization’** is designed for professional engineers and it is expected to commence in August 2006.

- **Doctor of Business Administration (DBA)** is a professional doctorate program, where the research is rooted in the context of professional practice making a significant contribution to management practice, policy or strategy.

- **Professional Master of Engineering Degree in Offshore Technology and Management** – offers three specializations of the upstream E&P.

### School of Engineering and Technology

1. Computer Science
2. Information Management
3. Industrial Engineering & Management
4. Design and Manufacturing Engineering
5. Mechatronics
6. Microelectronics
7. Remote Sensing and Geographic Information Systems
8. Telecommunications
9. Construction, Engineering and Infrastructure Management
10. Geotechnical and Geoenvironmental Engineering
11. Structural Engineering
12. Transportation Engineering
13. Water Engineering and Management
14. Offshore Technology and Management (1 year)

### School of Environment, Resources and Development

1. Agricultural Systems & Engineering
2. Aquaculture and Aquatic Resources Management
3. Energy
4. Food Engineering and Bioprocess Technology
5. Pulp and Paper Technology
6. Gender and Development Studies
7. Natural Resources Management
8. Regional and Rural Development Planning
9. Environmental Engineering and Management
10. Urban Environmental Management

### School of Management

1. Management of Technology
2. International Business
3. Service Marketing and Technology
4. International Public Management

### Interdisciplinary fields

1. Information & Communication Technologies
2. Geosystem Exploration and Petroleum Geoengineering
3. Hydropower Engineering
4. Cleaner Production
5. Integrated Tropical Coastal Zone Management
6. Integrated Watershed Development and Management
7. Modeling Tools for Environmental and Resources Management
Deliberations that were initiated in the second half of 2005 resulted in the following changes in enrollment that will take effect in August 2006:

- Application fee of US$20 was imposed in order to filter out frivolous applications.
- Increase in tuition and fees by 14 percent in order to provide a margin for effective tuition discounting.
- Limit on tuition discounts (fellowships) of 15 percent average for each school along with a new monitoring system.
- A new policy on student English language proficiency, accompanied by increased support for English language skills development. TOEFL or similar standardized exam scores are now generally required for admission. Graduation from AIT will require a minimum score on AIT’s English language exam. Students’ courses of study will be adapted to allow for the necessary level of English language instruction depending on their test scores.
- A One-Stop Student Service Center that allows students to access admissions, assistantship/financial aid, registry, cashier/invoicing and later on, student accommodation, in one place. Operationally, a three-stage interaction with students is being aimed for: (a) student-to-student for initial assistance; (b) staff-to-student for general assistance; and (c) officer-to-student for specialist assistance.
- AIT smart ID card in the January 2006 semester.

### Application trends

The January 2005 applications of 550 signified a 28.9 percent drop over the previous January semester intake. Of these, 190 accepted the offer showing a 48 percent rate of acceptance. Among those who accepted, 99 fee-paying students enrolled - a leap of 4 percent over the previous January semester intake. A slight increase in the percentage of discount in terms of fellowships was also observed – 9.47 percent in January 2005 versus 7.33 percent of the same intake last year.

The admissions data for August 2005 versus August 2004 is also shown in the table below. A total of 3,395 applications were received, which is almost at the same level as that of August 2004. The percentage of acceptance reduced slightly from 30 percent in August 2004 to 27 percent in August 2005.

### Sources of Tuition Revenue (2005)

#### AIT (2005)

<table>
<thead>
<tr>
<th>Applications</th>
<th>Offers</th>
<th>Accepted</th>
<th>Percent Acceptance</th>
<th>Fee-paying Enrolled</th>
<th>Difference (%)</th>
<th>Discount Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-04</td>
<td>773</td>
<td>656</td>
<td>163</td>
<td>25%</td>
<td>95</td>
<td>7.33%</td>
</tr>
<tr>
<td>Jan-05</td>
<td>550</td>
<td>395</td>
<td>190</td>
<td>48%</td>
<td>99</td>
<td>4%</td>
</tr>
<tr>
<td>Aug-04</td>
<td>3,951</td>
<td>2,567</td>
<td>684</td>
<td>30%</td>
<td>653</td>
<td>17.41%</td>
</tr>
<tr>
<td>Aug-05</td>
<td>3,395</td>
<td>2,946</td>
<td>798</td>
<td>27%</td>
<td>672</td>
<td>3%</td>
</tr>
</tbody>
</table>

#### SAT (2005)

<table>
<thead>
<tr>
<th>Applications</th>
<th>Offers</th>
<th>Accepted</th>
<th>Percent Acceptance</th>
<th>Fee-paying Enrolled</th>
<th>Difference (%)</th>
<th>Discount Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-04</td>
<td>55</td>
<td>46</td>
<td>17</td>
<td>37%</td>
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<tr>
<td>Jan-05</td>
<td>106</td>
<td>79</td>
<td>33</td>
<td>42%</td>
<td>28</td>
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<tr>
<td>Aug-04</td>
<td>831</td>
<td>733</td>
<td>208</td>
<td>28%</td>
<td>178</td>
<td>7%</td>
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<tr>
<td>Aug-05</td>
<td>844</td>
<td>745</td>
<td>197</td>
<td>26%</td>
<td>190</td>
<td>7%</td>
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#### SCE (2005)

<table>
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<th>Applications</th>
<th>Offers</th>
<th>Accepted</th>
<th>Percent Acceptance</th>
<th>Fee-paying Enrolled</th>
<th>Difference (%)</th>
<th>Discount Rate</th>
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<tr>
<td>Jan-04</td>
<td>15</td>
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<td>8</td>
<td>0.00%</td>
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<tr>
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<td>91</td>
<td>35</td>
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<td>25%</td>
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<tr>
<td>Aug-04</td>
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<td>436</td>
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#### SOM (2005)

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<th>Percent Acceptance</th>
<th>Fee-paying Enrolled</th>
<th>Difference (%)</th>
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#### SERD (2005)

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### 2005 TOTAL ENROLLMENT BY DEGREE PROGRAM

#### By School and Degree Program

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<tr>
<td>- Certificate</td>
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<td></td>
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<tr>
<td>- Research Fellows</td>
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<td></td>
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<td>- Post Doctoral</td>
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#### SCE

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#### SERD

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#### SOM

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### 2005 TOTAL STUDENT ENROLMENT BY ORIGIN

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<tr>
<td><strong>TOTAL</strong></td>
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</tr>
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</table>
As of the December 2005 graduation, AIT has graduated 14,020 young professionals from 75 countries and territories. The Alumni Relations Office (ARO) of AIT has been reconstituted since April 2002 to encompass a greater scope of activities/responsibilities with a view of proactive efforts to work with the AIT Alumni Association (AIT AA) Mother Chapter and its national chapters and alumni at large to jointly promote AIT’s academic programs as well as launch new initiatives that will contribute to the long-term sustainability of the institute.

In order to inform the alumni body, the quarterly AIT Alumni Newsletter (Electronic Version) has been in existence since June 2002. The Alumni Relations Office has also maintained a mailing list, alumnibody@ait.ac.th, with more than 8,000 active e-mail addresses of alumni.

### Alumni Distribution

#### by Nationality

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<thead>
<tr>
<th>Region</th>
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<th>Count</th>
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<td><strong>Sub-total</strong></td>
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<td><strong>251</strong></td>
</tr>
<tr>
<td>Africa and Others</td>
<td>Egypt</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Ethiopia</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Ghana</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Kenya</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Malawi</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Morocco</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mozambique</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Nigeria</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Tanzania</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Zambia</td>
<td>1</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td></td>
<td><strong>38</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14,020</strong></td>
</tr>
</tbody>
</table>
SAT & SCE have been combined as SET in August 2005.
Faculty Academic Activities

The report on academic activities shows the published outputs, and the varied sponsored and grant research projects, as well as continuing education activities undertaken by the schools.

Faculty Strength

Faculty strength, in terms of faculty headcount, taken as an annual average, has decreased by 15 percent over the 2004 level. Control in the hiring of short-term faculty members, normally for teaching (or co-teaching) a course during a semester, accounted for such decrease.

Institute-wide Faculty Headcount 2005

<table>
<thead>
<tr>
<th>2005 Average</th>
<th>Long-term Faculty</th>
<th>111</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Direct-hire</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>* Seconded</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

| Short-term Faculty | 33 |
| * Visiting Faculty | 11 |
| * Adjunct Faculty  | 22 |

TOTAL 144

2005 Report on Academic Activities

<table>
<thead>
<tr>
<th>Activities</th>
<th>SET</th>
<th>SERD</th>
<th>SOM</th>
<th>2005 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. PUBLICATIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journal Papers</td>
<td>125</td>
<td>117</td>
<td>20</td>
<td>262</td>
</tr>
<tr>
<td>Conference papers / Proceedings</td>
<td>193</td>
<td>128</td>
<td>1</td>
<td>322</td>
</tr>
<tr>
<td>Books / Chapters in Books</td>
<td>22</td>
<td>12</td>
<td>0</td>
<td>34</td>
</tr>
<tr>
<td>Others*</td>
<td>42</td>
<td>30</td>
<td>5</td>
<td>77</td>
</tr>
<tr>
<td>Total</td>
<td>382</td>
<td>287</td>
<td>26</td>
<td>695</td>
</tr>
<tr>
<td>B. SPONSORED AND GRANT RESEARCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completed Projects</td>
<td>63</td>
<td>65</td>
<td>2</td>
<td>130</td>
</tr>
<tr>
<td>Ongoing Projects</td>
<td>75</td>
<td>42</td>
<td>0</td>
<td>117</td>
</tr>
<tr>
<td>Total</td>
<td>138</td>
<td>107</td>
<td>2</td>
<td>247</td>
</tr>
<tr>
<td>C. CONTINUING EDUCATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conferences</td>
<td>69</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Workshops</td>
<td>32</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Seminars</td>
<td>40</td>
<td>0</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>Short Courses</td>
<td>34</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Special Lectures</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Others#</td>
<td>33</td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>267</td>
<td>0</td>
<td>21</td>
<td>000</td>
</tr>
</tbody>
</table>

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

2005 Student-to-Faculty Ratio

Based on student and faculty headcounts, the 2005 average student-to-faculty ratio was computed at 18. Across units, SOM has relatively higher loads of degree-level teaching and student supervision.

Student-to-Faculty Ratio 2005

<table>
<thead>
<tr>
<th>2005 Average</th>
<th>* SAT</th>
<th>16.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>* SCE</td>
<td>13.2</td>
<td></td>
</tr>
<tr>
<td>* SERD</td>
<td>16.3</td>
<td></td>
</tr>
<tr>
<td>* SOM</td>
<td>31.6</td>
<td></td>
</tr>
</tbody>
</table>

AVERAGE 18.1

Promotions / appointment to full professor

In recognition of their valuable contributions to the Institute and their respective professions, two faculty members were promoted and one appointed to the rank of full professor in 2005.

Prof. Peter Haddawy of the Computer Science and Information Management fields of study has been associated with the institute since May 2000. His major areas of specialization are Decision-Theoretic Problem Solving, Probabilistic Reasoning, Modeling of User Preferences, Electronic Commerce, and Medical Decision Making.

Prof. M. Nazrul Islam of the Management of Technology field of study has been associated with the institute since September 1998. His major areas of specialization are Management of Technology, Technology and Development, Technology Policy, and Technology Transfer.

In view of his academic credentials and achievements of very high standard, Prof. I. M. Pandey, Dean of the School of Management, was appointed at the rank of full professor.
New vice presidents appointed

On 30 August, the newly arrived president, Prof. Said Irandoust, announced the appointment of four new vice presidents. Appointed were: Prof. Peter Haddawy as vice president for education, Prof. Sudip K. Rakshit as vice president for research and Prof. Vilas Wuwongse and Dr. Khin Ni Ni Thein as vice presidents for external relations.

The appointments came after three days of community and alumni participation in public hearings. Through the participation in the public hearings, the candidates and members of the community contributed to the development of a culture of active participation, openness and transparency.

AIT President Irandoust said he tried to take into consideration the candidates’ views and strategies as well as the reflections coming directly during the hearings and subsequently from the members of the community.

The appointments for the vice president positions are on a part-time basis (approximately 50 percent). In the case of the vice presidents for external relations appointment, two candidates were named because of AIT’s need to be proactive and aggressive in marketing approaches, partnerships and the building of alliances. Prof. Vilas will focus on Asia, and Dr. Ni Ni, who has considerable experience dealing with non-governmental organizations will assist in Europe and USA. She becomes the first female vice president.

President appoints deans, director

President Said Irandoust appointed three school deans and a director of AIT Extension to take effect 1 November.

The school deans appointed were: School of Engineering and Technology – Prof. Worsak Kanok-Nukulchai; School of Environment, Resources and Development – Prof. Sivanappan Kumar; School of Management and Entrepreneurship – Prof. I. M. Pandey. Dr. Jonathan Shaw was appointed director of AIT Extension.

The appointments of the deans and director are for a one-year period, following which there will be discussions with a focus on performance and achievement before renewal of term.

Administrative office heads appointed

The process for the selection of the administrative office heads was initiated through an open dialogue held in August with staff members from the administration. Subsequent meetings chaired by the vice presidents were held between the heads of each of the sub-units together with some other staff within the sub-units, following which a few individuals were recommended to serve as the head of the offices. Since the finance and human resources functions are more specific in nature the above process was not applied in their cases, and the current heads were asked to continue. The administrative office heads appointed were:

- **Student Matters** - Ms. Ann V. Lopez-Fontanilla
- **Research and Education Support** - Ms. Izel Ann Mojado-Dante
- **External Relations** - Mr. Sanjeev Jayasinghe
- **Human Resources** - Ms. Kalchana Nettayawichit
- **Finance** - Mr. Eng Wan
- **Infrastructure** - Dr. H. L. Tien

Clockwise: Mr. Sanjeev Dr. Tien Mr. Eng Ms. Kanchana Ms. Ann Ms. Izel
Completed and ongoing sponsored and contracted projects

School of Engineering and Technology

Completed projects

Computer Science & Information Management

Asia-Pacific Retreat Secretariat
Investigator: Prof. Kanchana Kanchanasut
Sponsor: Asia Pacific Network Information Centre, Australia
Duration: 1 September 2003 – 31 December 2005
Total Amount: 785,000 THB

Automated Brokering for Business-to-Business (B2B) E-Commerce
Investigator: Prof. Peter Haddawy
Sponsor: Royal Thai Government
Duration: 1 May 2002 – 31 December 2005
Total Amount: 950,000 THB

V-Class (Virtual Class) Software Development
Investigator: Prof. Kanchana Kanchanasut
Sponsor: Royal Thai Government
Duration: 1 January 2003 – 31 December 2005
Total Amount: 2,844,730 THB

Internet Protocol (IP) Broadcasting over Satellite Link
Investigator: Prof. Kanchana Kanchanasut ; Collaborators: Dr. Sukumal Imudom and Dr. Surasak Sanguanpong, Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 March 2003 – 30 June 2005
Total Amount: 760,000 THB

Destination Management for E-tourism Thailand
Investigator : Dr. Vatcharaporn Esichaikul; Collaborator: Sukhothai Thammathirat Open University, Thailand
Sponsor: Royal Thai Government
Duration: 1 April 2003 - 30 June 2005
Total Amount: 431,000 THB

Web Community and Knowledge-based Intelligent System for Supporting Customer Relationship Management for Thai SME
Investigator: Prof. Dencho Batanov; Collaborator: Dr. Anongnat Srijitphok, Kasetsart University, Thailand
Sponsor: Royal Thai Government/Thailand Small and Medium Enterprises (SME)
Duration: 1 October 2004 – 31 October 2005
Total Amount: 868,000 THB

Construction, Engineering and Infrastructure Management

A Markov Deterioration Model for Truck-Induced Cracking Bridge Decks
Investigator: Dr. Pannapa Herabat; Collaborator: Dr. Sorawit Narupiti, Chulalongkorn University, Thailand
Sponsor: Royal Thai Government
Duration: 1 September 2004 – 31 October 2005
Total Amount: 890,000 THB

Construction Work Performance Under Bovis Lend Lease Safety and Health Management System
Investigator: Dr. B.H.W. Hadikusumo
Sponsor: Bovis Lend Lease (Thailand) Ltd.
Duration: September 2004 – May 2005
Total Amount: 87,000 THB

Investigators: Prof. Stephen O. Ogunlana, Dr. Chotchai Charoenngam, Dr. Pannapa Herabat, Dr. B.H.W. Hadikusumo
Sponsor: Participants
Duration: March 2004 – December 2005
Total Amount: 1,025,000 THB

Design & Manufacturing Engineering and Industrial Engineering & Management

A New Software for 5-Axis Machining Optimization, Simulation, and Verification (Joint Project with Sirindhorn International Institute of Technology and Computer Integrated Manufacturing Laboratory, AIT)
Investigator: Assoc. Prof. Erik L.J. Bohez
Sponsor: National Electronics and Computer Technology Center (NECTEC)
Duration: January 2002 – November 2005
Total Amount: 1,326,400 THB

Geotechnical & Geoenvironmental Engineering

Asia Link
Contributor: Dr. Ulrich Glawe
Sponsor: European Commission
Contribution: 5.75 man-months
Total Amount: 12,277,315 THB

Asia Pro Eco
Investigator: Dr. Ulrich Glawe
Sponsor: European Commission
Duration: March 2004 – February 2005
Total Amount: 1,297,236 THB

Construction of Ground Improvement for East Runway/ Taxiways & Cargo Aprons, Suvarnabhumi Airport
Investigator: Dr. Ulrich Glawe;
Collaborator: Dr. Noppadol Phien-wej
Sponsor: GMT Corporation Ltd., Thailand
Duration: 17 January 2003 – 31 July 2005
Total Amount: 3,209,759 THB

Development of System and Software for Tunnel-induced Building Damage Risk Assessment in Bangkok
Investigator: Dr. Kyung Ho Park
Sponsor: Royal Thai Government
Duration: 1 May 2003 – 30 June 2005
Total Amount: 575,000 THB

Geotechnical Advisory Services in the Construction Supervision of Klong Tha Dan Dam, Nakorn Nayok, Thailand
Investigator: Dr. Noppadol Phien-wej
Sponsor: Royal Irrigation Department of Thailand
Duration: February 2000-December 2005
Total Amount: 640,000 THB

Geotechnical Supervision for Foundation Works of Tha Dan Dam, Nakorn Nayok
Investigator: Dr. Noppadol Phien-wej
Sponsor: ASDECON Corporation, Thailand
Duration: February 2000 – December 2005
Total Amount: 610,000 THB

Integrated Management & Safe Disposal of Municipal Solid Waste in Least Developed Asian Countries
Investigator: Dr. Ulrich Glawe
2005 Annual Report

Mechatronics and Microelectronics

Investigator: Dr. Nitin Azulpurkar
Sponsors: Consortium of Industry and National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA)
Duration: September 2005 – December 2005
Total Amount: 252,000 THB

Machine Vision Training Module (September05-December05)
Investigator: Dr. Nitin Azulpurkar
Sponsors: Consortium of Industry and National Electronics and Computer Technology Center (NECTEC)
Duration: September 2005 – December 2005
Total Amount: 1,800,000 THB

ZnS Nanophosphors for Field Effect Devices and DNA Labeling Applications
Investigator: Dr. Joydeep Dutta
Sponsors: National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA)
Duration: 2003 - 2005
Total Amount: 450,000 THB + US$ 5,000

International Symposium on Nanotechnology in Environmental Protection and Pollution
Investigator: Dr. Joydeep Dutta
Sponsors: National Nanotechnology Center (NANOTEC), National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA) and AORD (USA)
Duration: December 2004 – December 2005
Total Amount: 450,000 THB + US$ 5,000

Development of an Intelligent Underwater Mobile Robot Project
Investigator: Dr. Manukid Parnichkun
Sponsor: Royal Thai Government
Duration: April 2003 – December 2005
Total Amount: 1,000,000 THB

Development of an Automatic-Controlled-Flying Robot Project
Investigator: Dr. Manukid Parnichkun
Sponsor: Thailand Research Fund
Duration: January 2001 – December 2005
Total Amount: 1,080,000 THB

Remote Sensing & Geographic Information Systems

3D Digital City Modeling: Some Case Studies for Protection of World Cultural Heritages in Thailand
Investigator: Royal Thai Government
Collaborator: Dr. Xiao Yong Chen

Digital Asia Network (DAN)
Investigator: Dr. Lal Samarakoon
Sponsors: Japan Aerospace Exploration Agency (JAXA)/Remote Sensing Technology Center of Japan (RESTEC)
Duration: April 2004 – July 2005
Total Amount: 1,874,796 THB

JAXA Mini-Project (World Summit on Sustainable Development - WSSD)
Investigator: Dr. Lal Samarakoon
Co-Investigator: Dr. Manzul Hazarika
Sponsor: Japan Aerospace Exploration Agency, Project FY 2004-2005
Duration: April 2004 – July 2005
Total Amount: 8,143,200 THB

Near Real Time Agricultural Activity Monitoring Using Multi-Temporal Moderate Resolution Imaging Spectroradiometer (MODIS) Earth Observation Satellite Data
Investigator: Dr. Kiyoshi Honda
Collaborators: Kasetsart University, Thailand; Chulachomklao Royal Military Academy, Thailand
Sponsor: Royal Thai Government
Duration: 1 May 2003 – 30 June 2005
Total Amount: 950,000 THB

Real Time Spatial Logging Device for Open Geographic Information System (GIS)
Investigator: Dr. Nitin Kumar Tripathi
Collaborators: Dr. Phisan Santitammont, Chulalongkorn University, Thailand; Dr. Pakorn Apaphant, Geoinformatics & Space Technology Development Agency, Thailand
Sponsor: Royal Thai Government
Duration: 1 May 2003 – 30 June 2005
Total Amount: 937,000 THB

Regional Space Activity Promotion Study
Investigator: Prof. Michiro Kusanagi
Sponsor: National Space Development Agency of Japan
Klong Prapa Canal Covering Project
Investigator: Prof. Worsak Kanok-Nukulchai; Collaborator: Case Company Limited, Thailand
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 6,341,440 THB

Klong Prapa Canal Covering Project – Part II (Water & Architecture)
Investigator: Prof. Tawatchai Tingsansancli; Collaborators: Prof. Worsak Kanok-Nukulchai, Prof. Ajit Annachhatre, AIT; YP Consultants Company Limited, Thailand; Dr. Apichart Wongkaew, Dr. Yingplew Suphakitiwong
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 1,228,748 THB

Klong Prapa Canal Covering Project – Part III (Traffic Study)
Investigator: Prof. Yordphol Tanaboriboon; Collaborators: Prof. Worsak Kanok-Nukulchai, AIT; Mr. Krisda Tangkawachiranon
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 1,513,000 THB

Klong Prapa Canal Covering Project – Part IV (Utilities, Geotechnics and Geometric Design)
Investigator: Dr. Noppadol Phien-wej; Collaborators: Prof. Worsak Kanok-Nukulchai, AIT; WISANUCOM Engineering Consultants Company Limited, Thailand
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 2,245,200 THB

Natural Rubber Composites for Railway Sleepers: A Feasibility Study
Investigator: Prof. Worsak Kanok-Nukulchai; Collaborator: Thammasat University, Thailand
Sponsor: Royal Thai Government
Duration: 16 May 2003 – 30 June 2005
Total Amount: 996,000 THB

Risk Analysis due to Catastrophic Urban Floods in Bangkok using GIS, Remote Sensing and Surface-River Model
Investigator: Dr. Yoshitaka Kato; Collaborator: Dr. Dushmanta Dutta, AIT
Sponsor: United Nations University, Japan
Duration: 1 February 2005 – 31 December 2005
Total Amount: 200,000 THB

An Assessment of Socio-economic Impacts of Floods under Climate Change Conditions in Large Coastal Cities in South and Southeast Asia
Investigators: Prof. Ashim Das Gupta and Dr. Mukand Singh Babel
Sponsor: Asia Pacific Network for Global Change Research Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries (CAPaBLE) Programme
Duration: 1 September 2004 – 31 January 2006
Total Amount: 1,800,000 THB

Measurement of Water Quality in the Mun River Basin
Investigator: Dr. Mukand Singh Babel and Prof. Ashim Das Gupta
Sponsor: Department of Civil Engineering, Tohoku University, Japan
Duration: 1 March 2004 – 28 February 2005
Total Amount: 500,000 THB

Training Course on Urban Drainage Management and Irrigation and Drainage in Cebu, Philippines
Investigators: Dr. Sutat Weesakul and Dr. Roberto Clemente
Sponsor: University of San Carlos, Philippines
Duration: 1 July 2004 – 1 May 2005
Total Amount: 343,480 THB

Space Application Study
Investigator: Prof. Michiro Kusanagi
Sponsor: Japan Science and Technology Corporation
Duration: 1 April 1999 – 31 March 2006
Total Amount: 1,233,796 THB

Sustainable Peri Urban Agriculture
Investigator: Dr. Frederic Borne; Collaborator: Dr. Nitin Tripathi
Sponsor: Centre de Cooperation Internationale en Recherche Agronomique pour le Development, France
Duration: 1 June 2003 – 31 December 2005
Total Amount: 369,000 THB

Training on Open-source Map Server
Investigator: Dr. Manzul Hazarika
Sponsor: Urban Development Authority (UDA), Sri Lanka
Duration: 22 – 26 August 2005
Total Amount: 344,400 THB

Structural Engineering
Independent Inspecting and Testing Agency in Manufacturing of Concrete Sleepers for State Railway of Thailand (ITD Sleever – 2005)
Investigator: Dr. Pichai Nimiyongskul
Sponsor: Italian-Thai Development Public Company Limited (ITD)
Duration: 1 January 2005-31 December 2005
Total Amount: 800,000 THB

Ease-10 Conference Preparation Phase (2005)
Investigator: Prof. Worsak Kanok-Nukulchai
Sponsor: East Asia-Pacific Conference on Structural Engineering and Construction (EASEC) Secretariat
Duration: 1 July 2005 – 31 December 2005
Total Amount: 400,000 THB

Investigation of Structural Integrity of Din Daeng Housing
Investigator: Dr. Pichai Nimiyongskul
Sponsor: National Housing Authority, Thailand
Duration: 1 December 2002 – 31 December 2005
Total Amount: 5,303,315 THB

Klong Prapa Canal Covering Project – Part II (Water & Architecture)
Investigator: Prof. Tawatchai Tingsansancli; Collaborators: Prof. Worsak Kanok-Nukulchai, Prof. Ajit Annachhatre, AIT; YP Consultants Company Limited, Thailand; Dr. Apichart Wongkaew, Dr. Yingplew Suphakitiwong
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 1,228,748 THB

Klong Prapa Canal Covering Project – Part III (Traffic Study)
Investigator: Prof. Yordphol Tanaboriboon; Collaborators: Prof. Worsak Kanok-Nukulchai, AIT; Mr. Krisda Tangkawachiranon
Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 1,513,000 THB

Klong Prapa Canal Covering Project – Part IV (Utilities, Geotechnics and Geometric Design)
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Sponsor: Department of Highways, Ministry of Communication, Thailand
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 Investigators: Dr. Sutat Weesakul and Dr. Roberto Clemente
 Sponsor: University of San Carlos, Philippines
 Duration: 1 July 2004 – 1 May 2005
 Total Amount: 343,480 THB
Joint Research Project on Land Use and Soil Quality Dynamics in Welimada Watershed, Sri Lanka, under Integrated Watershed Development and Management (IWDM) Program, AIT
Investigators: Dr. Ranamukhaarachchi and Dr. Roberto Clemente
Sponsor: Danish International Development Agency (Danida)
Duration: 15 June 2004 – 15 April 2005
Total Amount: 160,000 THB

Klong Prapa Corridor Project, A Bridge Over Raw Drinking Water (sub-project on Water and Architect)
Investigator: Prof. Tawatchai Tingsainchali; Collaborators: Prof. Worsak Kanok-Nukulchai, Prof. Ajit Annachhatre, AIT; YP Consultants Co Ltd., Thailand; Dr. Apichart Wongkaew, Dr. Yingplew Suphakitwong
Sponsor: Department of Highways, Thailand
Duration: 26 October 1999 – 30 June 2005
Total Amount: 1,228,748 THB

Rainfall Forecast for Eastern Bangkok
Investigator: Dr. Sutat Weesakul; Collaborator: Dr. Uruya Weesakul, Thammasat University
Sponsors: Bangkok Metropolitan Administration, Team Consulting Engineering and Management Co., Ltd., Thailand
Duration: 1 January 2004 – 31 October 2005
Total Amount: 1,200,005 THB

Realtime Hydrological Information for the People of Thailand
Investigator: Dr. Sutat Weesakul; Collaborators: Dr. Uruya Weesakul, Thammasat University; Dr. Chavalit Chaleeratrakul, Thammasat University, Thailand; Dr. Ole Mark, DHI Water and Environment, Denmark
Sponsor: Royal Thai Government
Duration: 1 April 2003 – 30 June 2005
Total Amount: 953,000 THB

Risk Analysis due to Catastrophic Urban Floods in Bangkok Using GIS, Remote Sensing and Surface-River Model
Investigator: Dr. Yoshihata Kato; Collaborator: Dr. Dushmantha Dutta, AIT
Sponsor: United Nations University, Japan
Duration: 1 September 2004 – 30 November 2005
Total Amount: 360,000 THB

Urban Flood Inundation Modeling in Mekong River Basin Using a Physically Based Surface-River Model
Investigator: Dr. Dushmantha Dutta
Sponsor: Engineering Consultants NEWJEC Inc. Osaka, Japan
Duration: 1 November 2003 – 30 September 2005
Total Amount: 720,000 THB

Workshop on Governance of Transboundary Water
Investigators: Dr. Mukand Singh Babel, Prof. Ashim Das Gupta
Sponsor: United Nations University
Duration: June – October 2005
Total Amount: 221,968.16 THB

Flood Forecasting for Lower Chao Phraya River Basin
Investigator: Dr. Sutat Weesakul
Sponsor: Panya Consultants Co., Ltd.
Duration: 1 January 2004 – 31 October 2005
Total Amount: 2,046,356 THB

Ongoing projects

Computer Science & Information Management
A Collaborative Intelligent Tutoring System for Medical Problem-Based Learning
Investigator: Prof. Peter F. Haddawy
Sponsor: Royal Thai Government Joint Research Fund 2004
Duration: September 2004 – August 2005 (Extended to March 2006)
Total Amount: 942,500 THB

Computer-Aided Learning Program for Health Professional Students in Diabetes Patient History Taking
Investigator: Prof. Peter F. Haddawy
Sponsor: Royal Thai Government Joint Research Fund 2004
Duration: September 2004 – August 2005 (Extended to March 2006)
Total Amount: 156,000 THB

Construction, Engineering and Infrastructure Management
Consistency of Safety and Health Management System Implementation
Investigator: Dr. B. H. W. Hadikusumo
Sponsor: Bovis Lend Lease
Duration: May 2005 – December 2006
Total Amount: 88,500 THB

EU-Asia Network of Competence Enhancement on Public-Private Partnerships (PPPs) in Infrastructure Development
Investigator: Prof. Stephen O. Ogunlana
Sponsor: The European Union (EU)
Duration: April 2004 – March 2007
Total Amount: Euro 400,000

Strategic Budgeting System II
Investigator: Dr. Chotchai Charoenngam
Sponsor: Chulalongkorn University
Duration: October 2004 – March 2006
Total Amount: 1,000,000 THB

Construction Work Performance Under Bovis Lend Lease Safety and Health Management System
Investigator: Dr. B.H.W. Hadikusumo
Sponsor: Bovis Lend Lease (Thailand) Ltd.
Duration: May 2005 – December 2006
Total Amount: 88,500 THB

The Strategic Portfolio Program Management
Investigators: Dr. Chotchai Charoenngam, Dr. B.H.W. Hadikusumo
Sponsor: Ministry of Foreign Affairs, Thailand
Duration: October 2005 – March 2007
Total Amount: 4,978,000 THB

Inspection Manuals and Procedures for Expressway Transit Authority of Thailand
Investigator: Dr. Pannapa Herabat
Sponsor: The Expressway Transit Authority of Thailand (ETA)
Total Amount: 600,000 THB

Design & Manufacturing Engineering and Industrial Engineering & Management
Evaluation of the Modernization of Technical Education in Production Technology
Investigator: Assoc. Prof. Erik L.J. Bohz
Sponsor: Rajamangala Institute of Technology (RIT)/EMCO Co.
Duration: July 2001 – December 2007
Total Amount: 450,000 THB

Biodegradable Polylactide and Natural Rubber for Multicolor Articles Rapid Prototyping
Investigator: Dr. Pisut Koomsap
Sponsor: Royal Thai Government
Duration: December 2005 – December 2006
Total Amount: 785,000 THB

Geotechnical and Geoenvironmental Engineering
Thermal Stabilization of Soft Bangkok (Phase 2)
Investigators: Prof. Dennes T. Bergado and Dr. Noppadol Phien-wej
Sponsor: Royal Thai Government
Duration: January 2005 – March 2006
Total Amount: 900,000 THB

Rubber Tire Chips Mixed with Sand Reinforced with Geogrid
Investigator: Prof. Dennes T. Bergado
Development of System for Tunneling-induced Damage Risk Assessment using Analytical Methods
Investigator: Dr. Kyung-Ho Park
Sponsor: NOWENG Co., Ltd.
Duration: 1 September 2004 – 30 December 2006
Total Amount: 376,972 THB

Bridge-Development of Human Resources in Development of Academic Programmes in Sustainable Geosystem Exploration and Engineering (BRIDGE)
Investigators: Dr. Pham Huy Giao and Dr. Noppadol Phien-wej
Sponsors: International Institute for Geo-information Science and Earth Observation (ITC), The Netherlands and European Commission
Duration: 1 November 2005 – 30 November 2008
Total Amount: 4,674,126 THB

Characterization of Soft Soil in Mekong Delta, a Collaboration Project
Research Team Member: Dr. Pham Huy Giao
Investigator: Geotechnical Group, Tokyo Institute of Technology (TIT)
Sponsor: Japanese government
Duration: 2004 – 2006

Review and Investigation of Flood Drainage Project around the Suvarnabhumi Airport
Investigator: Dr. Noppadol Phien-wej
Sponsor: Royal Irrigation Department of Thailand
Duration: September 2003-September 2006
Total Amount: 3,124,625 THB

Mechatronics and Microelectronics
Investigator: Dr. Nitin Afzulpurkar
Sponsor: Consortium of Seagate, Hitachi, Western Digital and National Electronics and Computer Technology Center (NECTEC)
Duration: November 2004 – December 2006
Total Amount: 1,500,000 THB

Investigator: Dr. Nitin Afzulpurkar
Sponsors: National Science and Technology Development Agency (NSTDA)
Duration: February 2004 – December 2006
Total Amount: 3,880,800 THB

Remote Sensing and Geographic Information Systems
Environmental Protection and Pig Production - E3P (March 2005-February 2006)
Investigator: Dr. Frederic Borne
Sponsor: CIRAD-France
Duration: March 2005 – February 2006
Total Amount: 329,000 THB

Spatial Analysis of Malaria Risk to the Determination of Epidemiological Surveillance in an Endemic Region of Thailand and the Effectiveness of a New Control Strategy (RTG-Malaria)
Investigator: Dr. Honda Kiyoshi
Sponsor: Royal Thai Government Joint Research Project 2004
Budget: 1,000,000 THB

Road Management
Investigator: Dr. Honda Kiyoshi
Sponsor: Japan Bank of International Cooperation
Duration: February 2002 – February 2006
Total Amount: 1,111,968 THB

Asian Highway
Investigator: Dr. Honda Kiyoshi
Sponsor: United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP)
Duration: August 2003 – April 2006
Budget: 652,500 THB

Applying Parallel Computing on Cluster and Grid Systems for Agricultural Monitoring Based on Crop Model and Remote Sensing (RTG-Cluster)
Investigator: Dr. Honda Kiyoshi
Sponsor: Royal Thai Government Joint Research Project FY 2004
Total Amount: 975,000 THB

Geographic Information Management (GIM)
Investigator: Dr. Honda Kiyoshi
Sponsor: Keio University, Project FY 2005-2009
Duration: April 2005 – March 2010
Total Amount: 700,000 THB (annually)

Digital Asia
Investigator: Dr. Lal Samarakoon
Sponsor: Keio University, Project FY 2005-2009
Duration: April 2005 – March 2010
Total Amount: 700,000 THB (annually)
Human Network Project
Investigator: Dr. Lal Samarakoon
Sponsor: Japan Aerospace Exploration Agency (JAXA) – Bangkok, Project FY 2005-2006
Total Amount: 774,810 THB

Image Processing, Data Analysis, and Preparation of a Geographic Information System Data Base of Remote Sensing Images from around The Mesopotamia Marsh (Mesopotamia)
Investigator: Dr. Honda Kiyoshi
Sponsor: Digital Service International Co., Ltd. (DSI)
Duration: January 2004 – April 2006
Total Amount: 700,000 THB

JAXA Mini Project (WSSD-2)
Investigator: Dr. Lal Samarakoon; Co-Investigator: Dr. Manzul Hazarka
Sponsor: Japan Aerospace Exploration Agency (JAXA), Project FY 2005-2006
Duration: April 2005 – March 2006
Total Amount: 14,730,000 THB

Japan Science and Technology Agency (JST) Project
Investigator: Dr. Lal Samarakoon; Co-Investigator: Dr. Junichi Susaki
Sponsor: JST, Project FY 2005-2006
Duration: January 2005 – March 2006
Total Amount: 1,478,000 THB

The Geographic Information System Component in Tsunami Early Warning System of AIT (RTG-TSUNAMI-GIS)
Investigator: Dr. Honda Kiyoshi
Sponsor: Royal Thai Government Budget Joint Research Project FY 2005
Duration: November 2005 – November 2006
Total Amount: 875,000 THB

Khao Dok Mali (KDM) 105-
Geographic Information System
Investigator: Dr. Xiaoyong Chen; Co-Investigator: Dr. Srisaang Kaojarem
Sponsor: Royal Thai Government Budget Joint Research Project FY 2005
Duration: November 2005 – October 2006
Total Amount: 1,000,000 THB

Development of Marine and Coastal Resources Database of Thailand
Investigator: Dr. K. Ikejima, Dr. Nitin Kumar Tripathi
Sponsor: United Nations Environment Programme
Duration: 20 August 2005 – 20 July 2006
Total Amount: 2,460,000 THB

Flood Water Retention for Dry Season
Investigator: Dr. Nitin Kumar Tripathi
Sponsor: Royal Thai Government Budget Joint Research Project FY 2006
Duration: October 2005 – October 2006
Total Amount: 970,000 THB

Geographic Information System and Nutritional Status of Lampoon Province People Thailand
Investigators: Prof. Michiro Kusanagi, Dr. Srisaang Kaojarem
Sponsor: Royal Thai Government Budget Joint Research Project FY 2004
Duration: September 2004 – February 2006
Total Amount: 600,000 THB

Asia e-learning Project
Investigator: By Multi-point Distant Learning Network System
Investigator: Prof. Michiro Kusanagi
Sponsor: Japanese Space Exploration Agency (JAXA)
Duration: July 2003 – June 2006

Structural Engineering
Investigation of Structural Integrity of Eua Arthorn Housing
Investigator: Dr. Pichai Nimityongskul
Sponsor: National Housing Authority
Duration: 10 May 2004 – 31 December 2007
Total Amount: 3,750,000 THB

International Ferrocement Information Center 2005 (IFIC 2005)
Investigator: Dr. Pichai Nimityongskul
Sponsor: Self support
Duration: 1 February 2005 – 31 December 2006
Total Amount: 500,000 THB

Testing of Structural Integrity of Concrete Structure for Hopewell Column (Hopewell 2005)
Investigator: Dr. Pichai Nimityongskul
Sponsor: NTBR
Duration: 1 August 2005 – 31 March 2007
Total Amount: 3,000,000 THB

Seismic Behavior of Steel Beam-Column Connection with Knee Brace (Knee Braced Frame)
Investigator: Dr. Pennung Warnitchai
Sponsor: Royal Thai Government
Duration: November 2005 – November 2006
Total Amount: 996,000 THB

Seismic Hazard Assessment and Mitigation of Seismic Risk in Thailand (Phase 1):
Sub-Project 3 and 4
Investigator: Dr. Pennung Warnitchai; Collaborator: Dr. Noppadol Phien-wej
Sponsor: Thailand Research Fund (TRF)
Duration: 1 September 2002 – 31 December 2006
Total Amount: 3,154,000 THB

Adjustment to the Building Energy Code
Investigator: Prof. Worssak Kanok-Nukulchai
Sponsor: Dansk Energi Management A/S
Duration: 1 June 2002 – 30 June 2006
Total Amount: 14,040,000 THB

Natural Rubber Composites for Railway Sleepers: A Feasibility Study
Investigators: Prof. Worssak Kanok-Nukulchai, Dr. Noppadol Phien-wej
Sponsor: Royal Thai Government
Duration: 16 May 2003 – December 2006
Total Amount: 996,000 THB

Chemical Modification of Natural Rubber Composites for Structural Application
Investigator: Prof. Worssak Kanok-Nukulchai
Sponsor: Royal Thai Government Joint Research Fund
Duration: 30 September 2004 – December 2006
Total Amount: 875,000 THB

Finite Element Modeling of Tsunami Propagation on the Coast of Thailand
Investigator: Prof. Worssak Kanok-Nukulchai
Sponsor: Royal Thai Government Joint Research Fund
Duration: 1 November 2005 – 31 October 2006
Total Amount: 875,000 THB

East Asia Pacific Conference on Structural Engineering and Construction (EASEC) Secretariat
Investigator: Prof. Worssak Kanok-Nukulchai
Sponsor: Participants/Donors/Subsidy
Total Amount: 8,800,000 THB

Evaluation of Seismic Capacity of Gravity-Load-Designed, Prestressed Concrete Slab-Column Frame Buildings in Bangkok
Investigator: Dr. Pennung Warnitchai
Sponsor: Thailand Research Fund
Duration: October 2005 – March 2006
Total Amount: 350,000 THB

Mitigation of Seismic Risk in Thailand
Investigator: Dr. Pennung Warnitchai
Sponsor: Thailand Research Fund
Duration: Since August 2002
Total Amount: 3,154,000 THB
Research

Telecommunications

Algorithm and System Design of Signal Processing on Quantum Cryptography System: Simulations
Investigator: Dr. Teerapat Sanguankotchakorn
Sponsor: Royal Thai Government Joint Research Fund
Duration: 15 September 2004 – 31 March 2006
Total Amount: 810,000 THB

Transportation Engineering

Thailand Accident Research Center
Investigator: Prof. Yordphol Tanaboriboon
Sponsor: Department of Highways, Thailand
Duration: 1 July 2005 – 30 June 2007
Total Amount: 14,000,000 THB

Road Safety Audit Along the Chalong Rat and Burpha Withi Expressways
Investigator: Prof. Yordphol Tanaboriboon
Sponsor: Expressway and Rapid Transit Authority of Thailand (ERTA)
Duration: 22 August 2005 – 21 April 2006
Total Amount: 1,000,000 THB

Logistics Management at the Intermodal Terminals
Investigator: Dr. Shinya Hanaoka
Sponsor: Royal Thai Government
Duration: 1 November 2005 – 31 October 2006
Total Amount: 876,000 THB

Water Engineering and Management

Sustainable Water Management Policy under the Freshwater Resources Management Project
Investigator: Dr. Mukand Singh Babel
Sponsor: Institute for Global Environmental Strategies, Japan
Duration: 1 September 2004 – 30 September 2007
Total Amount: 1,700,000 THB

Collaborative Research in Water Resources and Environment Modeling
Investigators: Dr. Mukand Singh Babel and Prof. Ashim Das Gupta
Sponsor: United Nations University, Tokyo
Duration: 1 September 2004 – 31 August 2006
Total Amount: 500,000 THB

12th Congress of the Asia and Pacific Division of IAHR
Investigator: Prof. Ashim Das Gupta and Dr. Mukand Singh Babel
Sponsor: International Association of Hydraulic Engineering and Research (IAHR)
Total Amount: 2,579,383 THB

An Assessment of Groundwater Vulnerability to Contamination and Estimation of Potential Areas Contributing Risk and Hazard to Groundwater in Chao Phraya River Basin by Numerical Modeling
Investigator: Prof. Ashim Das Gupta
Sponsor: Royal Thai Government
Duration: 1 October 2004 – 31 March 2006
Total Amount: 999,000 THB

Review and Investigation in Flood Drainage around Suvarnabhumi Airport
Investigators: Prof. Tawatchai Tingsanchali and Dr. Noppadol Phienwej
Sponsor: Royal Irrigation Department, Thailand
Duration: 1 September 2003 – 30 September 2006
Total Amount: 2,730,000 THB

Hydraulic and Leakage Investigations in Pipe Networks for Water Supply Distribution in Bangkok
Investigator: Prof. Tawatchai Tingsanchali
Sponsor: ISONET Co., Ltd., Thailand
Duration: 1 April 2005 – 31 March 2006
Total Amount: 1,400,000 THB

Regional Network for Center of Excellence for Integrated River Basin Management in Asian Monsoon Region
Investigator: Prof. Tawatchai Tingsanchali
Sponsor: Yamanashi University
Duration: 15 June 2005 – 14 June 06
Total Amount: 347,500 THB

Water Quality Modeling in Tachin River
Investigator: Dr. Sutat Weesakul
Sponsor: Hydro and Agro on Formatics Institute
Duration: 1 June 2005 – May 2006
Total Amount: 1,140,000 THB

Development of Operation Flood Forecasting System Case Study: Chao Phraya River Basin
Investigator: Dr. Sutat Weesakul
Sponsor: National Electronic and Computer Technology Center (NECTEC)
Duration: 1 June 2004 – 30 June 2006
Total Amount: 5,027,400 THB

Hydraulic Model Study of Diversion Tunnel Nam Ngum 2
Hydroelectric
Investigator: Dr. Sutat Weesakul
Sponsor: Team Engineering Consulting and Management Co., Ltd.
Duration: 1 September 2005 – 31 May 2006
Total Amount: 2,990,650 THB

Modeling Tools for Environment and Resources Management (MTERM) Conference
Investigator: Dr. Mukand Singh Babel, Prof. Ashim Das Gupta
Sponsor: MTERM Conference
Duration: January 2005 – December 2006
Total Amount: 664,255 THB

Experimental Investigation of Hyper-Concentrated Tsunami Run-up
Investigator: Dr. Sutat Weesakul
Sponsor: Royal Thai Government
Duration: 1 November 2005 – 31 October 2006
Total Amount: 875,000 THB

School of Environment, Resources and Development

Completed projects

Agricultural Systems and Engineering

Hannover-AIT Protected Cultivation Project
Investigator: Prof. V. M. Salokhe; Collaborator: Dr. Thomas Achilles, AIT
Sponsors: Hannover University, Germany; Kasetsart University, Thailand
Duration: 1 September 2001 – 30 June 2005
Total Amount: 15,500,755 THB

Protected Cultivation – An Approach to Sustainable Vegetable Production in the Humid Tropics
Investigator: Prof. V. M. Salokhe
Sponsor: German Research Foundation (DFG)
Duration: January 2001 – 30 June 2005
Total Amount: 14,777,309 THB
Adapted Greenhouse System for Integrated Vegetable Production in Tropical Climates
Investigator: Prof. V. M. Salokhe
Sponsor: German Research Foundation (DFG)
Duration: 1 January 2001 – 30 June 2005
Total Amount: 2,007,430 THB

Asian Irrigation Institution Systems in Transition: Sustainability and Implications
Investigator: Dr. Ganesh Shivakoti;
Collaborators: International Water Management Association, Sri Lanka; Sage Publications, India
Sponsor: The Ford Foundation
Duration: 1 March 2001 – 31 December 2005
Total Amount: 2,105,306 THB

Development of Rotary Tiller for Mixing Sugarcane Residues
Investigator: Prof. V. M. Salokhe;
Collaborator: Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 March 2003 – 30 June 2005
Total Amount: 1,000,000 THB

Human Resource Development Network in Food Quality and Safety for Sustainable Food Production
Investigator: Prof. Vilas M. Salokhe
Sponsor: European Union
Duration: 2004 – 2005
Total Amount: Euro 196,612

Michigan State University Study Abroad Program in Thailand
Investigator: Dr. Ganesh Shivakoti
Sponsor: Michigan State University
Duration: 12 January – 9 April 2005
Total Amount: US$ 12,500

Michigan State University Study Abroad Program in Thailand
Investigator: Dr. Ganesh Shivakoti
Sponsor: Michigan State University
Duration: 15 May – 18 June 2005
Total Amount: US$ 14,500

Protected Cultivation – An Approach to Sustainable Vegetable Production in the Humid Tropics
Investigator: Prof. Vilas M. Salokhe
Sponsor: German Research Fund
Duration: 1 January 2001 – 30 June 2005
Total Amount: 14,777,309 THB

Training cum Internship on Asian Governance and Leadership Training and Internship
Investigator: Dr. Ganesh Shivakoti
Sponsor: Sung Kyun Kwan University, South Korea
Duration: 17 April – 8 May 2005
Total Amount: US$ 21,500

Aquaculture and Aquatic Resources Management
Collaboration on Building an Aquaculture Compendium
Investigator: Dr. Amararatne
Yakupitiyage; Collaborator: University of Stirling, UK; Aquaculture Centre in Asia-Pacific; World Fish Centre; World Aquaculture Society; Nha Trang University, Vietnam.
Sponsor: CAB International, UK.
Duration: 1 November 2003 – 31 July 2005
Total Amount: 856,266 THB

Managing Pesticides in Vegetable System in Southeast Asia: Combining Environment and Trade
Investigator: Dr. Amararatne
Yakupitiyage; Collaborator: Dr Yang Yi, AIT; University of Stirling, U.K.; Soil and Fertilizer Institute, China.; Hanoi Agricultural University, Vietnam; Agricultural Economics Research Institute, Netherlands; Alterra B. V., Netherlands
Sponsor: European Commission
Duration: 1 November 2003 – 31 October 2005
Total Amount: 2,345,850 THB

Pond Live
Investigator: Dr. Amararatne
Yakupitiyage; Collaborator: Dr Yang Yi, AIT; Wageningen University, Netherlands
Sponsor: European Commission
Duration: 1 November 2001 – 31 October 2005
Total Amount: 4,957,910 THB

Managing Agro-Chemicals in Multi-use Aquatic Systems
Investigator: Dr. Amararatne
Yakupitiyage; Collaborator: Dr. Harvey Demaine, AIT; University of Stirling, U.K.
Sponsor: European Commission
Duration: 1 November 2001 – 31 December 2005
Total Amount: 5,050,195 THB

Conservation of Giant Black Tiger Shrimp (Penaeus Monodon), Genetic Diversity through Cryogenic Preservation of Gametes
Investigator: Dr. Amrit Bart;
Collaborators: Dr. Verapong & Dr. Subunthit Nimral, Burapha University, Thailand
Sponsor: Royal Thai Government
Duration: 1 February 2003 – 20 June 2005
Total Amount: 931,000 THB

Shrimp Research Information Database
Investigator: Dr. Yang Yi
Sponsor: National Center for Genetic Engineering and Biotechnology, Thailand
Duration: 1 January 2003 – 30 April 2005
Total Amount: 374,000 THB

Energy
Asian Regional Research Program in Energy, Environment and Climate, Phase III (ARRPEEC-III)
Investigators: Prof. S.C. Bhattacharya, Prof. R.M. Shrestha, Prof. C. Visvanathan and Dr. S. Kumar
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2002 – December 2005
Total Amount: 9,490,434 THB

Biomass Energy in Asia: Assessment and Strategy Formulation
Investigators: Prof. S.C. Bhattacharya, Dr. S. Kumar and Prof. R.M. Shrestha
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2002 – December 2005
Amount: 10,098,113 THB

Small and Medium Scale Industries in Asia: Energy, Environment and Climate Interrelations
Investigators: Prof. C. Visvanathan and Dr. S. Kumar
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2002 – December 2005
Amount: 9,422,065 THB

Strategies for Promotion of Energy Efficient and Cleaner Technologies in the Power Sector
Investigators: Prof. R.M. Shrestha and Prof. S.C. Bhattacharya
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2002 – December 2005
Total Amount: 9,311,541 THB

Regional Programme III Coordination
Investigators: Prof. S. Kumar, Prof. S.C. Bhattacharya

2005 Annual Report
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2002 – December 2005
Total Amount: 18,236,972 THB

Capacity Development for the Clean Development Mechanism (CDM) – A Guide Book to Develop Baseline for Projects
Investigators: Prof. Ram Shrestha, Prof. S.C. Bhattacharya and Prof. S. Kumar
Sponsor: United Nations Environment Programme (UNEP) Risoe Center, Denmark
Duration: December 2003 – June 2005
Total Amount: 795,400 THB

Development of Media and Transfer of Technologies for Energy Conservation
Investigator: Prof. Surapong Chirarattananon
Sponsor: Energy Conservation Promotion Fund, Thailand
Duration: January 2001 – June 2005
Total Amount: 6,451,000 THB

Dissemination and Policy Dialogue for GNESD Energy Access II Theme
Investigators: Prof. R.M. Shrestha and Dr. S. Kumar
Sponsor: Global Network of Energy for Sustainable Development (GNESD)/United Nations Development Programme (UNDP)
Duration: January 2004 – May 2004
Total Amount: 390,000 THB

Energy and Environmental
Innovation Strategies and Database
Investigator: Prof. R.M. Shrestha
Sponsor: Fuji Research Institute Corporation
Duration: February 2004 – 31 May 2005
Total Amount: 1,700,000 THB

Energy and Environmental Strategies and Database
Investigator: Prof. R.M. Shrestha
Sponsor: Fuji Research Institute Corporation
Duration: June 2004 – June 2005
Total Amount: 1,700,000 THB

Energy Access III Theme Project (Energy Access III/GNESD)
Investigators: Prof. Ram M. Shrestha and Prof. S. Kumar
Sponsor: Global Network on Energy for Sustainable Development (GNESD)
Duration: December 2004 – December 2005
Total Amount: 1,000,000 THB

Energy and Poverty: Knowledge and Analytical Support.
Investigators: Prof. R.M. Shrestha and Dr. S. Kumar
Sponsor: United Nations Development Programme (UNDP)

Feasibility Study for a Rice Husk-Fired Cogeneration Project for Angkor Bio Cogen (Cambodia)
Investigators: Prof. S.C. Bhattacharya and Mr. Remigio Henson
Sponsor: Angkor Kasekum Roongroueng Co., Ltd. (Cambodia)
Duration: 1 September 2004 – December 2005
Total Amount: 1,029,500 THB

RETs Theme Project (RETs Theme/GNESD)
Investigators: Prof. R.M. Shrestha and Dr. S. Kumar
Sponsor: Global Network of Energy for Sustainable Development (GNESD)
Duration: January 2004 – August 2005
Total Amount: 975,000 THB

Rural Electrification Decentralized Energy Options (REDEO)
Investigators: Prof. S. Kumar, Prof. Ram M. Shrestha and Dr. N. Mithulananthan
Sponsor: ASEAN Centre for Energy, Jakarta
Duration: June 2003 – July 2005
Total Amount: 2,444,000 THB

Thailand Building Chiller Replacement Project
Investigator: Mr. Remigio Henson
Sponsor: United Farmer & Industry Co., Ltd., Thailand
Duration: June 2002 – June 2005
Total Amount: 1,250,000 THB

Sustainable Energy Technologies Training
Investigator: Prof. S. Kumar
Sponsor: United Nations Development Programme (UNDP), Bangladesh
Duration: June – July 2005
Total Amount: 76,000 THB

Development of Concept and Method for Energy Service Operation
Investigator: Prof. Surapong Chirarattananon
Sponsor: Electricity Generating Authority of Thailand
Duration: 3 February 1997 – 31 December 1997
Total Amount: 1,000,000 THB

Building Energy Management Project
Investigator: Prof. Suapong Chirarattananon
Sponsor: National Energy Conservation Promotion Fund, Thailand
Duration: 15 November 1998 – 31 December 2005
Total Amount: 5,660,000 THB

Research on Innovative and Strategic Policy Options (RISPO) – Phase 3

Development of Innovative Technology for High-Strength Low-Degradable Wastewater Treatment: Bipolar Electro-Chemical Process (BECPP), Repetitive Chemical Oxidation (RCO) and Membrane Bio-Reactor (MBR)
Investigator: Dr. Oleg Shipin
Sponsor: Korea Institute of Science and Technology / Environmental Vision 21 Company, Ltd., Korea
Duration: 7 January 2001 – 15 July 2005
Total Amount: 5,958,378 THB

Pilot-Scale Experimental Study for Piggery Wastewater and Waste Reclamation at Chachengsao

Enhancement of Natural Attenuation of Soil and Groundwater Polluted by Trichloroethylene(TCE)
Investigator: Dr. Preeda Parkpian;
Collaborator: Dr. Pranee Pichitwattana, Anurakponsatoom, Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 September 1997 – 31 December 2005
Total Amount: 3,913,483 THB

Relationship between Traffic and Ambient Air Quality in Bangkok
Investigator: Prof. Samorn Muttamara;
Collaborator: Dr. Pranee Pichitwattana,
Pollution Control Department, Thailand
Sponsor: Honda Motors Co. Ltd.
Duration: 1 January 2000 – 31 December 2005
Total Amount: 8,532,500 THB

Development of Water Renovation Technology Using Bio-Eco Engineering System in Thailand
Investigator: Dr. Preeda Parkpian
Sponsor: National Institute of Environmental Studies, Japan
Duration: 1 September 1997 – 31 December 2005
Total Amount: 3,913,483 THB

Environmental Engineering and Management
Investigator: Dr. Barbara Earth; Collaborator: Dr. Patcharin Lapanun, Khon Kaen University, Thailand
Sponsor: Royal Thai Government
Duration: 1 April 2003 – 30 June 2005
Total Amount: 867,000 THB

Gender and Governance: Capacity-building of Local Women Executives in the Philippines
Investigator: Dr. Bernadette Resurreccion
Collaborator: Dr. Dietrich Schmidt-Vogt, AIT; Michigan State University, U.S.A; Virginia Tech University, U.S.A.
Sponsor: Ford Foundation
Duration: 2004 – 2006
Total Amount: 15,550,000 THB

Gender and Mobility in Vietnam
Investigator: Dr. Bernadette Resurreccion
Collaborator: Prof. A.T.M. Nurul Amin
Duration: 2004 – 2005
Total Amount: 780,000 THB

Gender Responsive City Planning and Management
Investigators: Dr. Bernadette Resurreccion, Dr. Willi Zimmermann, Dr. Walter Jamieson
Collaborator: Ms. Somporn Chaiarrekij
Sponsor: United Nations Human Settlements Programme (UN HABITAT)
Duration: 2004 – 2005
Total Amount: 175,500 THB

Women’s Oral History Project in Northern Sayaboury Province, Lao PDR
Investigator: Dr. Kyoko Kusakabe
Collaborator: University of Hong Kong
Sponsor: OSI Development Foundation, Switzerland
Duration: 2004 – 2005
Total Amount: 312,000 THB

Natural Resources Management
Development of Databases for Greenhouse Gases with Reference to Methane in Thailand
Investigator: Dr. Apisit Eiumnoh;
Collaborator: Dr. Preeda Parkpian, AIT
Sponsor: Thailand Research Fund
Duration: 1 June 1999 – 31 December 2005
Total Amount: 5,863,150 THB

Dynamics of Farm-Forest Linkages in the Context of Changing Land-Use Policies in South and Southeast Asia
Investigator: Dr. Edward Webb;
Collaborators: Dr. Dietrich Schmidt-Vogt, AIT; Michigan State University, U.S.A; Virginia Tech University, U.S.A.
Sponsor: U.S. Department of Agriculture Sustainable Agriculture and Natural Resource Management (SANRENM)/ Collaborative Research Support Program, U.S.A.
Duration: 1 April 2005 – 31 December 2005
Total Amount: 1,151,496 THB

Asian Irrigation Institutions
Systems in Transition: Sustainability and Implications
Investigator: Dr. Ganesh Shivakoti
Collaborators: International Water Management Association, Sri Lanka; Sage Publications, India
Duration: 1 March 2001 – 31 December 2005
Total Amount: 3,172,744 THB

Pulp and Paper Technology
Potential of Acacia Wood Species
Investigator: Dr. Raimo Malinen;
Collaborator: Dr. Sawtreen Pisuttipiched, Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 April 2003 – 30 June 2005
Total Amount: 920,000 THB

Optimizing Deinking of Local Old Newspaper (LONP)
Investigator: Dr. Moussa Nazhad;
Collaborator: Ms. Sompong Chaiarrekkij, Chulalongkorn University, Thailand
Sponsor: Royal Thai Government
Duration: 1 May 2003 – 30 Jun 2005
Total Amount: 742,000 THB

Urban Environmental Management
Research project on Rental Housing of the Low-income Groups in Bangkok Metropolitan Area (BMA)
Investigator: Dr. L.A.S. Ranjith Perera
Sponsor: National Housing Authority, Thailand
Duration: 27 October 2004 – 31 December 2005
Total Amount: 2,495,500 THB

Urban Environmental Management Program – Asia Project (Economic & Financial Considerations in Urban Environment Management)
Investigator: Prof. A.T.M. Nurul Amin
Sponsor: United Nations Centre for Human Settlements, Nairobi
Duration: May 2004 - June 2005
Total Amount: 165,000 THB

On going projects
Agricultural Systems and Engineering
Protected Cultivation: An Approach to Sustainable Vegetable Production in the Humid Tropics- Phase II
Investigator: Prof. V.M. Salokhe
Collaborator: Dr. Ganesh Shivakoti
Sponsor: Government of Hong Kong Grant to University of Hong Kong
Duration: September 2003 – December 2006
Total Amount: US$ 110,000

Collaboration in Integrated Natural Resource Management in Indonesia: Decentralization, Local People and Resources
Investigator: Dr. Ganesh Shivakoti
Collaborator: University of Hong Kong
Sponsor: Ford Foundation Grant to AIT and Andalas University
Total Amount: US$ 225,000 (US$ 100,000 to AIT and US$ 125,000 to Andalas University, Indonesia)

Development, Land Use Change, and Forest Conservation in Tua Thien Hue Province, Vietnam
Investigator: Dr. Edward Webb, Dr. Ganesh Shivakoti
Sponsor: MacArthur Foundation Grant
Duration: June 2003 – December 2006
Total Amount: US$ 230,000

Professional Enhancement and Curriculum Development to Strengthen its New Master’s Degree Program in Integrated Natural Resources Management and Development
Investigator: Dr. Ganesh Shivakoti  
Sponsor: Ford Foundation Grant to Andalas University, Indonesia  
Duration: August 2003 – December 2006  
Total Amount: US$ 180,000 (a sub-contract of US$ 50,000 to AIT)

**Aquaculture & Aquatic Resources Management**

**Improving Master’s degree Level Education in Aquaculture and Aquatic Resources Management**  
In Cambodia, Nepal and Vietnam  
Investigator: Dr. Amrit Bart  
Collaborators: University of Stirling, UK; University of Aveiro, Portugal; Royal University of Agriculture, Cambodia; Institute of Agriculture & Animal Science, Nepal; Research Institute for Aquaculture No.1. (RIA 1), Vietnam; University of Agriculture & Forestry, Ho Chi Minh City, Vietnam  
Sponsor: European Union (EU)  
Duration: 2005 – 2008  
Total Amount: 14,425,150 THB

**AIT-Coca Cola for Sustainable Coastal Livelihoods Project in Ranong**  
Investigator: Dr. Amrit Bart  
Sponsor: Coca Cola (Thailand) Ltd.  
Duration: 2005 – 2008  
Total Amount: 8,000,000 THB

**Post-Tsunami Sustainable Coastal Livelihoods Program**  
Investigator: Dr. Amrit Bart  
Sponsor: U.S. Agency for International Development (USAID)  
Duration: March 2005 – March 2008  
Total Amount: 12,760,605 THB

**Development of Release Strategies for Stock Enhancement of the Tropical Abalone Haliotis Asinina**  
Investigator: Dr. W.G. Gallardo  
Sponsor: International Foundation for Science (IFS), Sweden  
Duration: 1 October 2005 – 31 December 2006  
Total Amount: 239,663 THB

**Development of Marine and Coastal Resources Database of Thailand**  
Investigators: Dr. K. Ikejima, Dr. Nitin Tripathi  
Sponsor: United Nations Environment Programme (UNEP)  
Duration: August 2005 – March 2006  
Total Amount: 2,460,000 THB

**New Paradigm in Farming of Freshwater Prawn (Macrobrachium Rosenbergii) with Closed and Recycle Systems (Phase II)**  
Investigator: Dr. Yang Yi  
Sponsor: Aquaculture Collaborative Research Support Program (CRSP)/ USAID  
Duration: 2004 – 2006  
Total Amount: US$ 54,504

**Integrated Cage-cum-Pond Culture Systems with High - Valued Fish Species in Cages and Low-Valued Species in Open Ponds (Phase II)**  
Investigator: Dr. Yang Yi  
Collaborators: Bangladesh Agricultural University, Bangladesh; Institute of Agriculture and Animal Science, Nepal; Can Tho University, Vietnam; and University of Michigan, USA  
Sponsor: Aquaculture Collaborative Research Support Program (CRSP)/ USAID  
Duration: 2004 – 2006  
Total Amount: US$ 45,185

**Use of Rice Straw as a Resource for Freshwater Pond Culture**  
Investigator: Dr. Yang Yi  
Collaborators: Bangladesh Agricultural University, Bangladesh; University of Michigan, USA  
Sponsor: Aquaculture Collaborative Research Support Program (CRSP)/ USAID  
Duration: September 2004 – May 2006  
Total Amount: US$ 86,160

**Establishment of Links with Chinese Institutions in Collaboration on Aquaculture and Environmental Impacts**  
Investigator: Dr. Yang Yi; Collaborator: University of Michigan, USA  
Sponsor: Aquaculture Collaborative Research Support Program (CRSP)/ USAID  
Duration: 2004 – 2006  
Total Amount: US$ 51,792

**Optimization of Nitrogen Fertilization Regime in Fertilized Nile Tilapia Ponds with Supplemental Feed (Phase II)**  
Investigator: Dr. Yang Yi; Collaborator: University of Michigan, USA  
Sponsor: Aquaculture Collaborative Research Support Program (CRSP)/ USAID  
Duration: 2004 – 2006  
Total Amount: US$ 49,380

**Production in Aquatic Peri-Urban Systems in Southeast Asia**  
Investigator: Dr. Harvey Demaine  
Sponsor: EU through Durham University, UK  
Duration: 2003 – 2006  
Total Amount: 4,720,800 THB

**Regional Studies of Aquaculture Systems and Impacts in South East Asia, and Management Considerations for Non-Traditional Aquaculture Systems in Vietnam**  
Investigators: Dr. Yang Yi, Dr. Amrit Bart  
Sponsor: Collaborative Research Support Program (CRSP)  
Duration: August 2001 – May 2006  
Total Amount: 25,866 THB

**Survey of Tilapia-Shrimp Polycultures in Vietnam and Thailand; Stock Density for Tilapia-Shrimp Polyculture in Thailand**  
Investigator: Dr. Yang Yi  
Sponsor: Collaborative Research Support Program (CRSP)  
Duration: January 2002 – May 2006  
Total Amount: 575,288 THB

**The Application of the Mekong Giant Catfish (Pangasianodon gigas) Sperm Cryopreservation for Conservation and Commercial Breeding in Aquaculture**  
Investigator: Dr. Amrit Bart  
Sponsor: Royal Thai Government  
Duration: October 2004 – March 2006  
Total Amount: 950,000 THB

**Identification of Sex in Immature Mekong Giant Catfish (Pangasianodon gigas) by Using Molecular Genetic Technique (AFLP)**  
Investigator: Dr. Amrit Bart  
Sponsor: Royal Thai Government  
Duration: October 2004 – March 2006  
Total Amount: 955,000 THB

**Cryogenic Preservation of Threatened Pangasiiidae Catfishes in Thailand**  
Investigator: Dr. Amrit Bart  
Sponsor: National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand  
Duration: February 2002 – January 2006  
Total Amount: 1,218,000 THB

**Energy**

**An Improved Lagrangian Relaxation for Generation Scheduling in Day-Ahead Electricity Market**  
Investigators: Ms. Nit Petcharaks and Dr. Weerakorn Ongsakul  
Sponsor: Energy Policy and Planning Office (EPPO), Thailand  
Duration: May 2002 – December 2006  
Total Amount: 82,000 THB

**Capacity Building in Formulating Harmonized Policy Instruments for the Promotion of Renewable Energy (RE) and Energy Efficiency (EE) in the ASEAN Member Countries (EC-ASEAN Energy)**
Global Environmental Outlook – 4
Investigator: Prof. Ram M. Shrestha
Sponsor: United Nations Environment Programme (UNEP) Regional Office for Asia and the Pacific (ROAP)
Duration: January 2005 – January 2006
Total Amount: 585,000 THB

Integrated Assessment Model for Developing Countries (IAMDC) and Analysis of Mitigation Options and Sustainable Development Opportunities
Investigators: Prof. Ram M. Shrestha and Prof. S. Kumar
Sponsor: Asia Pacific Network for Global Change Research
Duration: October 2003 – March 2006
Total Amount: 2,535,000 THB

Project to Support Development of Human Resource in Energy to Honor Majesty Queen Sirikit on the auspicious Occasion of Her Majesty’s 70 Birthday Anniversary
Investigator: Prof. Surapon Chiraratananon
Sponsor: Energy Conservation Promotion Fund
Duration: June 2003 – May 2009
Total Amount: 17,000,000 THB

Promotion of bio-fuels for sustainable development in South and Southeast Asia
Investigators: Dr. Animesh Dutta, Prof. S. Kumar and Prof. Ram M. Shrestha
Sponsor: Winrock International, India
Total Amount: 608,580.00 THB

Investigators: Prof. Ram M. Shrestha and Dr. N. Mithulananthan
Sponsor: European Commission (EC)
Duration: January 2005 – January 2006
Total Amount: 7,875,843.65 THB

Strategic Database of Energy and Air Pollution in ASEAN and South Asian Countries
Investigator: Prof. Ram M. Shrestha
Sponsor: Mizuho Information and Research Institute, Inc.
Duration: April 2005 – August 2006
Total Amount: 3,650,000 THB

Global Environmental Outlook – 5
Investigator: Prof. R.M. Shrestha
Sponsor: United Nations Environment Programme (UNEP) Regional Office for Asia and the Pacific (ROAP)
Duration: 2005 – 2006
Total Amount: 585,000 THB

Environmental Engineering & Management

Asian Regional Research Programme on Environmental Technology Phase-II (ARRPET Phase II)
Coordinator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 160,000,000 THB

Projects under ARRPET II:
ARRPET program is composed of the following sub-projects:

ARRPET Phase II – National Research Institute (NRI) Research Activities: Sustainable Solid Waste Landfill Management in Asia
Investigator: Prof. C. Visvanathan
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 20,498,695 THB

ARRPET Phase II – Research Activities: Improving Air Quality in Asian Developing Countries
Investigators: Prof. Chongrak Polprasert, Dr. N.T. Kim Oanh
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004-2008
Total Amount: 9,686,755 THB

ARRPET Phase II – National Research Institute (NRI) Research Activities: Improving Air Quality in Asian Developing Countries
Investigators: Prof. C. Visvanathan
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 28,262,965 THB

ARRPET Phase II – National Research Institute (NRI) Research Activities: Industrial Hazardous Waste
Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 29,492,630 THB

ARRPET Phase II – Coordination
Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 8,999,735 THB

ARRPET Phase II – Swedish Resource Person
Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 28,262,965 THB

Research
Air Quality and Climate

Biomass Burning and Effects on Powered Vehicle and Open Aerosol Emission from Diesel - Total Amount: SEK 7,764,006
Duration: January 2004 – December 2007
Investigator: Prof. Ajit P. Annachhatre; Collaborator: University of Illinois at Urbana - Champaign
Sponsor: U.S.A.
Duration: 2005 – 2006
Total Amount: 240,000 THB

IWA Specialist Group Conference on Waste Stabilization Ponds
Investigator: Dr. Thammarat Kootatap
Sponsor: International Water Association (IWA), United Kingdom
Duration: 2005 – 2006
Total Amount: 3,000,000 THB

Training of Trainers (ToT) Workshop Distance Learning Course on Urban Quality Management for Asian Cities
Investigator: Dr. N. T. Kim Oanh
Sponsor: World Bank Institute
Duration: 2005 – 2006
Total Amount: 245,700 THB

Training Program on Technical Support of Laboratory Application and Multimedia Handling
Investigator: Prof. C. Visvanathan
Sponsor: University of Moratuwa, Sri Lanka
Duration: 2005 – 2006
Total Amount: 120,000 THB

The Fourth International Symposium on Southeast Asian Water Environment
Investigator: Dr. T. Aramaki
Sponsor: The University of Tokyo, Japan
Duration: 2005 – 2006
Total Amount: 684,424.05 THB

Short Term Training Program on Technical Support of Laboratory Application and Multimedia Handling Department of Chemical and Process Engineering
Investigator: Prof. C. Visvanathan
Sponsor: University of Moratuwa, Sri Lanka
Duration: 2005 – 2006
Total Amount: 120,000 THB

Asia Link - Hong Kong University of Technology (Technische Universität Hamburg-Harburg TÜHH): Development of Teaching and Training Modules for Higher Education in Waste Management Sector
Investigator: Prof. C. Visvanathan
Sponsor: EU-Collaboration of the European Communities
Duration: 2003 – 2006
Total Amount: 1,374,912 THB

Asia Link - Kumoh National Institute of Technology, Korea: Wastewater Treatment and Resource Recovery under Tropical Conditions (UAFF-FISH)
Investigator: Dr. Oleg Shipin; Collaborator: Kumoh National Institute of Technology, Korea
Sponsor: Asera Corporation
Duration: January 2004 – December 2006
Total Amount: 2,621,843 THB

Processing of Waste Municipal Solid Wastes in Thailand for Co-processing in Cement Kilns
Investigator: Prof. C. Visvanathan
Sponsor: Blackwood Ventures (Thailand) Co, Ltd.
Duration: 2005 – 2006
Total Amount: 250,000 THB

French project
Investigator: Prof. C. Visvanathan
Sponsor: The French Government
Duration: 2004 – 2006
Total Amount: 675,000 THB

EE (Environmental Engineering) Lab Test
Investigator: Prof. A. P. Annachhatre
Sponsor: Service to Users
Duration: 2004 – 2006
Total Amount: 600,000 THB

Application of Upflow Filter Technology for Piggery Wastewater Treatment and Resource Recovery under Tropical Conditions (UAFF-FISH)
Investigator: Dr. Oleg Shipin; Collaborator: Kumoh National Institute of Technology, Korea
Sponsor: Asera Corporation
Duration: January 2004 – December 2006
Total Amount: 250,000 THB

Biowaste Reuse in Southeast Asian Cities, Vietnam/Asia-Pro Eco/006 (104872), the European Commission, in collaboration with the Wageningen Universiteit
Investigator: Dr. Thammarat Kootatap; Collaborator: Kumoh National Institute of Technology, Korea
Sponsor: Asera Corporation
Duration: October 2005 – November 2006
Total Amount: 1,650,000 THB

Development of an International Long Distance Internet-Based Master Course on Environmental Technology and Management
Investigator: Prof. C. Visvanathan
Sponsor: Asia-LINK; European Commission
Duration: October 2003 – September 2006
Total Amount: 2,621,843 THB

Development of Teaching and Training Modules for Higher Education in the Waste Management Sector

Industrial and Hazardous Waste Treatment and Management
Investigator: Prof. Ajit P. Annachhatre; Collaborators: South China Institute of Engineering and Sciences, Guangzhou, China; Agharkar Research Institute, Pune, India; Center for Pulp and Paper, Bandung, Indonesia; Universiti Kebangsaan Malaysia; De la Salle University, Manila; and University of Moratuwa, Colombo, Sri Lanka
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2004 – December 2007
Total Amount: SEK 6,648,179

All activities...
(TETRAWAMA)
Investigator: Prof. C. Visvanathan
Sponsor: Asia-Link; European Commission
Duration: April 2003 – September 2006
Total Amount: 1,374,912 THB

Development of Toxic Industrial Wastewater Treatment Technology Based on Advanced Oxidation Processes & Membrane Bioreactor
Investigator: Prof. C. Visvanathan
Sponsor: Royal Thai Government
Duration: November 2005 – November 2006
Total Amount: 1,000,000 THB

Dissolved Oxygen Control System for Upgrading Conventional Activated Sludge Process for Seafood Industrial Wastewater
Investigators: Prof. Ajit P. Annachhatre, Dr. Panalee Chevakidagarn, Prince of Songkhla University (PSU)
Sponsor: PSU
Duration: 1 September 2004 – 31 May 2006
Total Amount: 975,000 THB

Feasibility Study on Refuse Derived Fuel Potentials in Municipal Solid Waste in Thailand for Co-Processing in Cement Kilns
Investigator: Prof. C. Visvanathan
Sponsor: Blackwood Ventures (Thailand) Co., Ltd.
Duration: November 2005 – September 2006
Total Amount: 350,000 THB

National Center of Competence in Research North-South: WP3: Health and Environmental Sanitation
Investigator: Dr. Thammarat Kootatep
Sponsor: Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Switzerland
Duration: 1 September 2002 – 30 June 2007
Total Amount: 13,450,440 THB

Quality Assurance for the Curriculum and Course Materials Development for the Major Courses of Undergraduate Environmental Science Program at the Royal University of Phnom Penh (RUPP)
Investigator: Dr. Thammarat Kootatep
Sponsor: Danish International Development Agency (Danida)
Duration: 1 April 2003 – 30 December 2006
Total Amount: 2,297,400 THB

Septage Treatment in Constructed Wetlands and Attached-Growth Waste Stabilisation Ponds
Investigator: Dr. Thammarat Kootatep
Sponsor: EAWAG, Switzerland
Duration: 1 September 1996 – 30 December 2008
Total Amount: 7,092,107 THB

Food Engineering and Bioprocess Technology
Milling Yield Evaluation for Thai Rice
Investigator: Prof. Athapol Noomhorm and Dr. Shrinivas M. Rao
Sponsor: Marine Resources Development Co., Ltd.
Duration: April 2004 – April 2006
Total Amount: 1,139,800 THB

Analysis of Fish Sauce Obtained by Fermentation by Different Modes
Investigators: Prof. Athapol Noomhorm and Dr. Bernadette Resurreccion
Sponsor: Marine Resources Development Co., Ltd.
Duration: September 2004 – February 2006
Total Amount: 940,000 THB

Development of Integrated Process for Urokinase Production
Investigator: Prof. S. K. Rakshit
Sponsor: Swedish International Development Cooperation Agency (SIDA)
Total Amount: 450,000 THB

Quality and Safety Fish
Investigator: Prof. S. K. Rakshit
Sponsor: Organization internationale de la Francophone (AUF)
Duration: January 2005 - December 2006
Total Amount: 25,000 EUR

Rapid Detection of Food Pathogen
Investigator: Prof. S. K. Rakshit
Sponsor: Royal Thai Government
Duration: November 2005 – November 2006
Total Amount: 830,000 THB

Gender and Development Studies
Publication on Gender and Natural Resource Management in Asia
Publication on Gender and Natural Resource Management in Asia
Investigator: Dr. Bernadette Resurreccion
Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 – 2007
Total Amount: 372,520 THB

The Impact of State Power in Ethnic Conflict Areas
Investigator: Dr. Kyoko Kusakabe
Sponsor: Open Society Institute (OSI) Development Foundation, Switzerland
Duration: 2005 – 2006
Total Amount: 964,250 THB

Sales of Publication
Investigator: Dr. Bernadette Resurreccion
Sponsor: Sale of in-house Publications
Duration: 2005 – 2006
Total Amount: 60,000 THB

Understanding Policy Processes in Biotechnology and Biosafety Measures in Thailand and China
Investigators: Dr. Bernadette Resurreccion, Dr. Edsel E. Sajor
Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 – 2006
Total Amount: 5,007,583 THB

Student Training/Workshop, Ochanomizu University, Japan
Investigator: Dr. Kyoko Kusakabe
Sponsor: Participants Fee
Duration: 2005 – 2006
Total Amount: 97,778 THB

Strengthening Gender Mainstreaming Capabilities in IFAD Projects in Cambodia and Vietnam
Investigator: Dr. Bernadette Resurreccion
Sponsor: Japanese Government thru United Nations Development Fund for Women (UNIFEM), Delhi and International Fund for Agricultural Development (IFAD), Rome
Duration: 2004 – 2006
Total Amount: 1,900,000 THB

Strengthening Gender Mainstreaming Capabilities in IFAD Project in Lao PDR
Investigators: Dr. Bernadette Resurreccion, Dr. Kyoko Kusakabe
Sponsor: International Fund for Agricultural Development (IFAD)
Duration: 2003 – 2006
Total Amount: 3,780,000 THB

An Edited Volume on Gender, Environment and Natural Resource Management
Investigator: Dr. Bernadette Resurreccion

Resource Management in Asia
Publication on Gender and Natural Resource Management in Asia
Investigator: Dr. Bernadette Resurreccion
Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 – 2007
Total Amount: 372,520 THB

The Impact of State Power in Ethnic Conflict Areas
Investigator: Dr. Kyoko Kusakabe
Sponsor: Open Society Institute (OSI) Development Foundation, Switzerland
Duration: 2005 – 2006
Total Amount: 964,250 THB

Sales of Publication
Investigator: Dr. Bernadette Resurreccion
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Understanding Policy Processes in Biotechnology and Biosafety Measures in Thailand and China
Investigators: Dr. Bernadette Resurreccion, Dr. Edsel E. Sajor
Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 – 2006
Total Amount: 5,007,583 THB

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Investigator: Dr. Kyoko Kusakabe
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Sponsor: Japanese Government thru United Nations Development Fund for Women (UNIFEM), Delhi and International Fund for Agricultural Development (IFAD), Rome
Duration: 2004 – 2006
Total Amount: 1,900,000 THB

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Investigators: Dr. Bernadette Resurreccion, Dr. Kyoko Kusakabe
Sponsor: International Fund for Agricultural Development (IFAD)
Duration: 2003 – 2006
Total Amount: 3,780,000 THB

An Edited Volume on Gender, Environment and Natural Resource Management
Investigator: Dr. Bernadette Resurreccion
Natural Resources Management

Professional Enhancement and Curriculum Development to Strengthen Andalas University’s New Master’s Degree Program in Integrated Natural Resources Management and Development
Investigator: Dr. G.P. Shivakoti; Collaborator: Andalas University, Indonesia
Sponsor: Ford Foundation
Duration: August 2005 – December 2009
Total Amount: US$ 100,000

Collaboration in Integrated Natural Resources Management in Indonesia “Decentralization, Local People, Gender and Resources”
Investigator: Dr. G.P. Shivakoti; Collaborator: Integrated Natural Resource Management (INRM), Indonesia
Sponsor: The Ford Foundation, Jakarta, Indonesia
Duration: 2005 – 2009
Total Amount: 4,100,000 THB

Development, Land Use Change and Forest Conservation in Thua Thien Hue Province Vietnam
Investigator: Dr. Edward Webb; Collaborators: Hue University of Agriculture and Forestry, Vietnam; Department of Agriculture and Rural Development, Vietnam
Sponsor: Center for Study of Rural Population and Forest Resources
Duration: 2003 – 2009
Total Amount: 9,660,000 THB

Development, Land Use Change and Forest Conservation in Central Vietnam
Investigators: Dr. Edward Webb, Dr. G. P. Shivakoti
Sponsor: MacArthur Foundation
Duration: June 2003 – December 2006
Total Amount: $230,000

University Support to Environmental Planning and Management (USEPAM) - Regional Coordinator and Long Term Technical Advisor
Investigator: Prof. Gopal Thapa
Sponsor: Danish University Support to Environmental Planning and Management (USEPAM) Consortium
Duration: 2002 – 2006
Total Amount: 5,583,721 THB

USEPAM - Networking
Investigator: Prof. Gopal Thapa
Sponsor: Danish University Support to Environmental Planning and Management (USEPAM) Consortium
Duration: 2002 – 2006
Total Amount: 235,600 THB

USEPAM - Workshop and Staff Exchanges
Investigator: Prof. Gopal Thapa
Sponsor: Danish University Support to Environmental Planning and Management (USEPAM) Consortium
Duration: 2002 – 2006
Total Amount: 6,596,800 THB

USEPAM - Regional Experts
Investigator: Prof. Gopal Thapa
Sponsor: Danish University Support to Environmental Planning and Management (USEPAM) Consortium
Duration: 2002 – 2006
Total Amount: 2,356,000 THB

Botanical Exploration of Tropical Forest in Thung Yai Naresuan Wildlife Sanctuary, Western Thailand
Investigator: Dr. E.L. Webb; Collaborators: World Wildlife Fund (WWF) and Royal Forest Department, Thailand
Sponsor: National Geographic Society Research and Exploration
Duration: June 2001 – August 2006
Total Amount: US$ 15,000

Asian Irrigation Institutions and Systems (AIIIS) Dynamics Study and Database Management
Investigators: Wai Fung Lam, Dr. Ganesh Shivakoti

Urban Environmental Management

Application of Research Results and Lessons Learned
Investigators: Prof. A.T.M. Nurul Amin, Dr. Edsel E. Sajor
Sponsor: Canadian International Development Agency (CIDA)
Duration: 2003 – 2008
Total Amount: 22,975,342 THB

Joint Action Research and Technical Assistance
Investigators: Prof. A.T.M. Nurul Amin, Dr. Edsel E. Sajor
Sponsor: Canadian International Development Agency (CIDA)
Duration: 2003 – 2008
Total Amount: 28,775,342 THB

Sub Sector Networks and Professional Support Program
Investigators: Prof. A.T.M. Nurul Amin, Dr. L.A.S. Ranjith Perera
Sponsor: Canadian International Development Agency (CIDA)
Duration: 2003 – 2008
Total Amount: 67,867,342 THB

Alumni Demonstration Projects
Investigators: Prof. A.T.M. Nurul Amin, Dr. L.A.S. Ranjith Perera
Sponsor: Canadian International Development Agency (CIDA)
Duration: 2003 – 2008
Total Amount: 52,903,342 THB

Project Management
Investigator: Prof. A.T. M. Nurul Amin
Sponsor: Canadian International Development Agency (CIDA)
Duration: 2003 – 2008
Total Amount: 27,431,210.20 THB

Southeast Asia Urban Environmental Management
Applications (SEA - UEMA) Project
Investigators: Dr. L.A.S. Ranjith Perera, Prof. A.T.M. Nurul Amin, Dr. Edsel Sajor, Dr. Vilas Nilivattananon, Dr. Nowarat Coowanitwong and Dr. Kyoko Kusakabe
Sponsor: Canadian International Development Agency (CIDA)
Duration: October 2003 – December 2008
Total Amount: CAD $ 9,479,839

Urban Environmental Management – Gender and Development Studies
Collaboration
Investigators: Prof. Nurul Amin, Dr. Ganesh Shivakoti

Sponsor: Government of Hong Kong
Grant to University of Hong Kong
Duration: September 2003 – December 2006
Total Amount: US$110,000
Research

Barbara Earth, Dr. Kyoko Kusakabe, Dr. Ranjith Perera, Dr. Bernadette Resurreccion, Dr. Edsel Sajor
Sponsor: United Nations Human Settlements Programme (UN HABITAT)
Duration: 26 September 2000 – 31 December 2006
Total Amount: 9,316,726 THB

UMP (Urban Management Programme) – AIT Partnership Investigators: Prof. Nurul Amin, Dr. Barbara Earth, Dr. Kyoko Kusakabe, Dr. Ranjith Perera, Dr. Bernadette Resurreccion, Dr. Edsel Sajor, Dr. Nowarat Coowanitwong, Dr. Vilas Nitivattananon
Sponsor: United Nations Human Settlements Programme (UN HABITAT)
Duration: 15 September 2002 – 31 December 2006
Total Amount: 11,241,645 THB

School of Management

Completed projects

Mitigating Environmental Emissions from the Urban Transport System in Selected Asian Countries: Strategies for Promotion of Energy Efficient Options (ARRPEEC)-Phase III Investigators: Dr. M. Nazrul Islam, Prof. Ram Shrestha
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2 December 2003 – August 2005
Total Amount 7,769,975 THB

Ansell Leadership Development Program 2004-05
Investigators: Dr. Singha Chiamsiri, Dr. Sundar Venkatesh
Sponsor: Ansell Limited
Duration: Sept 2004 – May 2005
Total Amount: 100,000 US$

One Module of the Swiss Executive MBA Program (Swiss-EMBA)
Investigator: Dr. Singha Chiamsiri
Sponsor: University of Applied Sciences, Switzerland
Duration: 10 – 30 January 2005
Total Amount: 19,500 US$

Field trip of IMI Executive MBA students to SOM/AIT. (IMI2005)
Investigator: Dr. Singha Chiamsiri
Sponsor: International Management Institute (IMI), India
Duration: 3 – 9 April 2005
Total Amount: 19,000 US$

Investigators: Dr. Singha Chiamsiri, Dr. Barbara Igel
Sponsor: National Electronics and Computer Technology Center (NECTEC) National Science and Technology Development Agency, Thailand
Duration: April – Aug 2005
Total Amount: 1,000,000 THB

Strategic Human Resource Management for Firms Innovation and Competitive Advantage
Investigator: Dr. Sununta Siengthai; Co-investigators: Prof. Chongrak Polprasert, Dr. Clemens Bechter, and Dr. Uthai Tanlamai (Chulalongkorn University).
Sponsor: Royal Thai Government
Duration: June 2002 – December 2004 (extended to June 2005)
Total Amount: 900,000 THB

Asian EMERGENCE
Investigators: Dr. Sununta Siengthai, Dr. Clemens Bechter, Prof. H. Paul
Sponsor: Institute for Employment Studies (IES)
Duration: 1 May 2002 – 31 December 2005
Total Amount: 173,776 Euros

Ongoing projects

Ansell Leadership Development Programme 2005-06. (Ansell LDP 2005-06)
Investigators: Dr. Sundra Venkatesh, Dr. Singha Chiamsiri
Sponsor: Ansell Limited
Duration: September 2005 – August 2006
Total Amount: 4,092,090 THB

AIT-SOM GTZ e-Learning
Investigator: Dr. Sundra Venkatesh
Sponsor: German Agency for Technical Cooperation (GTZ)
Duration: October 2005 – August 2007
Total Amount: 150,000 Euros

Research for Local Action Towards Sustainable Human Settlements (RELAY)
Investigator: Dr. Willi Zimmermann
Sponsor: European Union (via International Council for Local Environmental Initiatives - ICLEI Freiburg)
Duration: 15 May 2005 – 14 April 2006
Total Amount: 16,163 Euros
Appendix

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Appendix

List of Faculty Members

Full-Time Faculty
2005

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IT has steadily evolved since its inception as the SEATO Graduate School of Engineering in 1959 and has earned a reputation for the high quality of its teaching, research and outreach activities. AIT academic programs, leading to diploma, certificate, master’s and doctoral degrees, are offered in response to the needs of the countries in the region and are interdisciplinary so that engineering subjects are supplemented with their applications in the economic and social context.

The needs of Asian countries for higher education in engineering, technology and management with focus on environment, gender-responsive and sustainable development, continues to be high. This demand outpaces the capacity of the institute to help in the human resource development and capacity building of the region, where the provision of scholarships to students continues to be an important tool. To meet this demand, AIT is entering into cooperation or partnership agreements with governments, other national-level agencies, state universities and research institutions as well as international funding organizations for human resources development and capacity building.

Scholarship programs to meet the human resource development and institutional capacity building of government agencies are being or have been discussed with governments such as Bangladesh, Pakistan, Nepal, Sri Lanka, Bhutan, Indonesia and the Philippines resulting in several memoranda of understanding (MoUs) or agreements for scholarships and fellowships. The institute has also embarked to renew collaborative partnerships with donor governments that previously provided scholarships to AIT students. Ambassadors from donors and other Asian countries that are stakeholders of AIT are being visited and apprised of the activities of AIT, as well as invited to visit the institute. In addition, the institute continues to develop and foster academic links with Asian, European and American institutions for student and faculty exchange programs.

Scholarship and fellowship programs

**Australia**

The Australian government’s official multi-lateral program at AIT, inclusive of scholarships for Asian students, ended in the early 1990s. However, AIT continues to promote cooperation with Australian institutions through agreements on academic and student exchanges, dual-degree and joint-teaching programs as well as collaboration on research. A mission visit was conducted in June 2005 by the dean of SERD, a professor of the Food Engineering and Bioprocess Technology program, the director of promotions, and the alumni relations officer to follow up and finalize collaborative programs with:

- University of Wollongong for a dual-degree program in Environmental Engineering under and existing MoU.
- Royal Melbourne Institute of Technology for a dual-degree program in Food Engineering and Bioprocess Technology under and existing MoU.
- Deakin University for dual-degree programs in Water Engineering and Management under and existing MoU.
- Australian College of Applied Psychology for collaboration programs with AIT Extension and SOM.
- University of Western Sydney for a dual MBA program with SOM.

**Austria**

AIT and Austria had signed several scholarship agreements since the early 1990s for support of Asian nationals to study at AIT, particularly Bhutanese students. The MoU under implementation expired in December 2005. A proposal for a new agreement which will involve scholarships from the Austrian Development Agency (ADA) for master’s degree and doctoral degree programs for students from Bhutan, Nepal and the International Center for Integrated Mountain Development member states is under consideration by the Austrian Government. In order to enable 6 new Bhutanese students to enroll in August 2005 intake, the Austrian Government has approved the AIT request to advance the first semester’s scholarships cost of these new Bhutanese students. The remaining costs for their second through fourth semesters will be requested after the approval of the next phase of AIT-ADA cooperation.

**Bangladesh**

AIT’s partnership with Bangladesh is implemented through MoUs on international cooperation in education and research for institutional capacity building with the Ministry of Science and Information and Communication Technology, and institutions such as the American International University Bangladesh and the International Islamic University.
Chittagong. In addition, Bangladeshi master’s and doctoral students are supported with scholarships through bilateral grants from World Bank, Denmark, and the Asian Development Bank to governmental agencies and universities such as the ADB Finance Forestry Sector Project with the Ministry of Environment and Forest, BRAC Education Foundation, and DFID Ministry Fisheries. In order to attract self-supported and/or externally funded students, AIT intends to speed up promotions activities in Bangladesh through promotions visits to prominent private universities in Bangladesh as well as through assigning the education consultant agencies.

Belgium
Although official Belgian multi-lateral assistance program at AIT has ended, Belgium has actively been providing bilateral grants to its program countries in the Greater Mekong Subregion. Through its bilateral support project to Vietnam, five Vietnamese scholars are funded under the two-stage master’s program conducted partly at AIT Vietnam and at AIT. A Cambodian student under the same two-stage program enrolled in July 2005 at AIT Vietnam.

Bhutan
AIT has entered into a fellowship agreement with the Royal Civil Service Commission of Bhutan for Bhutanese students to be funded jointly by Bhutan and AIT fellowships. In addition to those Bhutanese students funded by the Austrian Government scholarships, Bhutanese scholars are also supported by the Bhutanese government or estate agencies such as the Department of Roads and Chukka Hydropower Corporation. An AIT mission visit to Bhutan was made in April 2005 by the Director of Promotions with Acting Dean, AIT Extension. The delegation had 23 meetings with a broad range of existing and potential partners during the six-day visit. They also met the Resident Representative of Austrian Embassy Development Cooperation, who plays a vital role in the human resource development capacity needs of the country by providing scholarships to Bhutanese nationals to undertake postgraduate studies at AIT.

Cambodia
AIT has entered into several agreements with donor governments for human resource development of the Cambodian government and universities. For institutional capacity building, AIT entered into formal MoUs with the Ministry of Education, Youth & Sports for master’s degree scholarships for Cambodian candidates nominated by the ministry and with such Cambodian universities as the Royal University of Phnom Penh, the Royal University of Law and Economics and the Royal University of Cambodia. An AIT mission visit was made in January 2005 by promotions staff and the director of the Language Center for a meeting with the Ministry of Education, Youth & Sports. During the mission, English language tests were conducted by the Language Center for the Bridging Program supported by the Swedish International Development Cooperation Agency (Sida). AIT received a list of 24 nominated candidates from the Ministry of Education, Youth & Sports following the signing of the MoU with the ministry. A total of nine applicants under the Sida scholarships joined AIT in the Bridging Program from March to July 2005.

Canada
AIT’s partnership program with Canada is implemented through the Canadian International Development Agency (CIDA) for master’s and doctoral scholarships of students from ASEAN countries except Brunei, Myanmar and Singapore, in the field of Urban Environmental Management. The agreement also provides for the conduct of demonstration projects, joint research projects, seminars and conferences. Eleven master’s and four doctoral scholarships were offered in the academic year 2005 intakes.

In addition, AIT has several academic exchange programs with Canadian universities to provide Canadian students opportunity to undergo special study or research in Asia through AIT. Several Canadian intergovernmental or inter-university programs also support master students from Cambodia and Bangladesh at AIT such as the Waste Econ Program, University of Ontario, and the E7 Ontario Power Generation.

China
AIT’s partnership program with China is implemented through the MoU between AIT and the Department of International Cooperation and Exchanges, Ministry of Education of China for master’s or doctoral degree scholarships at AIT for Chinese students nominated by the China Scholarships Council. Several MoUs have been successively signed since 1993, and the current MoU covers the period 2004-2006. Six master’s scholarships have been offered in the August 2005 intake.

AIT has also several agreements on academic cooperation and exchanges with many reputed Chinese universities and institutions such as Wuhan University, Heilongiang Bureau of Surveying and Mapping, Kunming University of Science and Technology, Chinese Academy of Engineering, Tongji University and the Chinese Academy of Surveying and Mapping.

Denmark
Although official multi-lateral support scholarships program of Denmark at AIT for
students from Danish program countries ended in 2004, some doctoral students are still continuing their studies with the last batch expected to graduate in December 2006. AIT, with the support of the Danish Government, continues to seek partnerships with the Danish program countries in Asia through their bilateral programs in Nepal, Bangladesh, Vietnam, Cambodia and Laos. Notable among these bilateral programs are those under the WaterSPs project based at the Water Resources University (WRU) in Hanoi where Vietnamese staff and faculty working at WaterSPS and WRU have been or are being supported in the master or certificate studies at AIT.

**Ethiopia**

There are 10 Ethiopian doctoral students at AIT funded with bilateral grants provided by the World Bank or European donors to Ethiopian universities such as the Alemaya University – Agricultural Research Training Project, and the Ethiopian Agricultural Research Organization. Most of these doctoral students are senior faculty members or department heads in Ethiopian universities.

**EU**

AIT has established a productive cooperation with the European Commission through successive European Union-funded programs at AIT that include scholarships for Asian and European students. The latest major cooperation was the Postgraduate Technological Studies program in 1999-2002 which was designed to reinforce Europe-Asia links particularly in human resource development through provision of scholarships to EU students and student exchange. The EC has also contributed to the human resource development in the field of energy, planning and economics in the region by providing scholarships and research grants to students studying in that field at AIT. In recent years, AIT had the opportunity of being granted support for projects through EC’s Asia-Link Programme and AIT intends to continue participating in this program by partnering with institutions in Europe and Asia.

**Finland**

AIT’s main partnership program with the government of Finland is implemented through the AIT-Finland MoUs which have been successively renewed since 1990s. The MoU for 2004-2006 provides support for the Pulp & Paper Technology and Telecommunications, under which 25 master’s and two doctoral scholarships to Asian students at AIT were offered in the August 2005 semester intake. The government of Finland has also been actively involved in the evaluation of the institute’s administration and management. Several Finnish companies, in the past, also provided scholarships such as Telecom-Finland-SONERA and Nokia.

**France**

Within the general objectives of French cooperation in the region, under the aegis of the Regional Cooperation Office in Southeast Asia, the activities of the French cooperation at AIT are developed along two main axes with the aim of fostering the development of the region through human resource development and capacity building:

- the development of joint academic and research activities between AIT and French institutions
- the coordination and integration of AIT’s activities with other relevant sponsored cooperation programs in the region

In 2005, according to the financing agreement signed in May 2005, the core French cooperation program with AIT amounts to €647,100 euros.

As of 18 November 2005, there were 48 holders of French scholarships enrolled at AIT, including 18 new students admitted in 2005 in three main academic fields: information and communication technology, energy and environment and business education. The admission of two students was deferred to a later stage.

In 2005, the French cooperation sponsored the participation of 34 AIT students to exchange, dual-degree programs or research internships in French academic and research institutions such as ESCP-EAP, CERAM, INT, CEMAGREF, INSA Lyon, University of Montpellier, Sciences Po and INRIA. Twenty-three of those students will receive a dual-degree master’s degree from AIT and a French partnering institution.

**Germany**

Official multi-lateral programs at AIT by the German government ended in 2001, and cooperation with Germany is mainly through academic exchanges and joint degree programs between AIT and top German universities. AIT has an existing MoU with the Catholic Academic Support Service for Foreign Students (KAAD) of Germany, wherein master’s and doctoral students are supported. One Myanmar student enrolled with KAAD support in August 2005 semester. KAAD’s scholarships are mainly for Southeast Asian students with a social and community development focus.

**India**

AIT’s main partnership programs with India are implemented through the Indian faculty secondment program at AIT and operational grant support through the local currency fund.
for Indian students, staff and faculty. As India is no longer a major recipient of international scholarship grants, many Indian students enroll at AIT with external funding support as well as through the AIT fellowships scheme.

**Indonesia**

AIT's partnership activities with Indonesia are implemented through its formal MoUs with Indonesian Government Ministries such as the Ministry of Agriculture as well as several top Indonesia universities such as with Andalas University, Petra Christian University, Atmajaya University, University of Gadjah Mada and the University of Lampung, through which Indonesian university faculty and researches are admitted to AIT's master's and doctoral degree programs.

As a result of AIT mission visits to Indonesia in 2005, AIT is planning to sign an MoA on the establishment of an AIT Center in Indonesia (AIT-Cl) with the Ministry of Public Works, Indonesia.

**Japan**

AIT's main partnerships activities with the government of Japan are conducted under several agreements, mainly with the Ministry of Foreign Affairs, the Japan International Cooperation Agency (JICA) and the Japan Aerospace Exploration Agency (JAXA), through which scholarships, faculty and expert secondments and operating grants are implemented. The Ministry of Foreign Affairs scholarships for master's degree and doctoral degree programs are earmarked for students from developing countries in the Greater Mekong Sub-region, Central Asia and South Asia. Ten master's and one doctoral scholarships were offered in August 2005 intake. Another doctoral student in the August 2005 intake was supported with partial scholarship from the Japanese grant. AIT's link with JAXA is noteworthy in that it provides for research and training cooperation in aerospace related fields as well the exchange of engineers and researchers.

AIT has also entered into several academic exchange and research cooperation programs with leading Japanese universities and research institutions such as with Keio University, Kyoto University, National Institute of Informatics, Tokyo, the University of Tokyo, the University of Tsukuba and the University of Yamanashi to name a few. Separately JICA, through its JICA Thailand Office, provided scholarships to two Laotian students in the AIT School of Management. These scholars are faculty members of the Economics Faculty of the National University of Laos. In addition to Japanese government support, the Japanese business sector such as the Keihin Electric Co. Ltd. Inc. provided one master's scholarship to an Asian student in the field of Telecommunications.

The annual proposals for the support of the government of Japan to AIT for fiscal years 2006-2007 incorporated some new elements to reflect the institute’s ability to adjust to the changing needs of the region. The new elements include regional program on integrated disaster mitigation and international summer school on sustainable development.

**Korea**

AIT's main partnership activities with the government of the Republic of Korea are through Korean faculty secondment program (at least one Korean faculty is seconded) and scholarships for Korean government officials for graduate studies at AIT, as well as through the Korean Endowment Fund for master scholarships for Asian students at AIT. Four Korean students are supported by the Ministry of Government Administration and Home Affairs, and three Asian students by the Korean Endowment Fund scholarships. AIT has also entered into academic cooperation and exchange programs with Hanyang University, the Korea Advanced Institute of Science and Technology, the Kumoh National University of Technology and the Korea Institute of Science and Technology (KIST) for a dual-degree program for eligible AIT and KIST students.

**Lao PDR**

AIT has entered into an agreement with the Ministry of Education of Laos for a cooperation program in education and research in technology, planning and management and to provide higher education to Laotian students. Lao PDR is a major recipient of AIT partner scholarships, particularly from Sweden. An AIT Day was held in the National University of Laos in January 2005 where more than 250 potential candidates came and 200 applications forms were distributed. English Language Tests was conducted by the Language Center for the Bridging Program supported by the Swedish International Development Cooperation Agency for more than 200 candidates. A total of 17 Laotian students have joined the AIT Bridging program in March 2005, and all have enrolled in the master degree program starting August 2005 semester.

**Malaysia**

To increase the number of Malaysian students, AIT entered into agreements with universities and launched promotional and student recruitment activities in Malaysia. AIT placed a promotional advertisement in one of Malaysia’s English language dailies in early April 2005. An official invitation was extended for a visit to AIT of the director of the Training Division of Public Service Department of Malaysia for AIT to acquaint the department with the institute’s
Appendix

academic offerings and research facilities and to discuss admission proposals aimed at increasing the number of Malaysian students at AIT. There are six Malaysian students studying at AIT, out of whom three are funded by the University Utara Malaysia and one by KOJADI.

Deans, deputy deans and senior lecturers from UiTM visited AIT in April 2005, and they mentioned that they will send their staff. As yet nothing has come of this.

In April 2005 six senior officials from the Judicial and Legal Training Institute in the Prime Minister’s Department visited. In June 2005, 10 delegates from Universiti Utara Malaysia visited AIT. They were interested in programs offered in SOM. AIT placed an institute-wide advertisement in the Sunday Star’s education section on 3 April 2005 for the August 2005 intake.

Myanmar

Although Myanmar is not a major recipient of donor government scholarships, AIT has established channels to ensure that academic and technological training are provided to Myanmar students. In addition, AIT also offers fellowships to enable outstanding but financially handicapped Myanmar students the opportunity to study at AIT. The Asian Development Bank, the Government of Japan and the World Bank are also regularly approached to assist the Institute is its human resource development programs for Myanmar.

Nepal

Nepal is one of the Asian countries which receive scholarships administered by AIT on behalf of its donor partners (Japan, Norway, and Thailand). An AIT mission visit was made in 15-19 May 2005 to Kathmandu. The delegation met with Vice Chancellor and Rector of the Tribhuvan University (TU). TU mentioned that they would like to get assistance from AIT in the capacity building programs as well as human resource development. TU would like to sign an MoU where in the faculty members are sent to AIT for doctoral degree program. The draft MoU is being prepared. The delegation also meet with the Secretary General as well as the Directors of Bhutan, Bangladesh, Nepal, Pakistan, India and Sri Lanka of the South Asian Association of Regional Cooperation (SAARC) secretariat mentioned that they would need the expertise of AIT to help in the capacity building of the Human Resource Development Center in Pakistan. AIT will send a team to conduct the needs assessment which will then be translated into a proposal for AIT.

Under the umbrella of the new MoU signed between Ministry of Science and Technology and AIT, the ministry is sending 10 candidates for master’s degree program this August 2005 intake.

A South Asian Institute of Technology (SAIT) was established by a group of AIT Nepalese alumni to reconfirm their support and assistance to AIT when requested. SAIT also extended its help to provide all the logistic support to AIT for any promotional activities to be carried out in Nepal. With the help of the SAIT, an Open House/AIT Day was held at the premises of SAIT. More than 150 interested persons attended the event where they were introduced to AIT, the courses and fields of study, the admission process and other important information. Brochures were also distributed.

Netherlands

AIT acknowledges the positive recommendations of the external evaluation review of the MoU between AIT and The Netherlands under the HRID 2001-2005 by a team of international experts conducted in November 2004. The recommendations reinforce AIT’s mission in human resources and institutional development in countries of the Asia-Pacific region in partnership with The Netherlands and other governments. AIT has submitted an application for a new collaborative agreement in June 2005 to the Dutch Embassy and is now working with the Development Cooperation Section of the Netherlands Government for the continuation of the HRID partnership program.

Norway

Norway is among AIT’s main development partners and has been one for a long period of time. The MoU covering 2003 to 2005 provided for a total 60 master degree scholarships under the Norwegian Agency for International Development Cooperation (NORAD) assistance program for students from Bangladesh, Nepal, Sri Lanka and Vietnam as well as Bhutan, Cambodia, East Timor, Laos and Pakistan. NORAD places priority for the enrolment of women students. Twenty scholarships have been offered in August 2005 intake. The focus is on poverty alleviation through environment, natural resources management, and rural development. AIT has also entered into several academic cooperation and exchange program with leading Norwegian universities through which faculty exchange and student exchanges are conducted.

Cooperation between Norway and AIT expired 31 December 2005. A proposal on “Education for Sustainable Development” was submitted for the continuation of the NORAD-AIT Cooperation Programme beyond 2005. The proposed program covers the period of 2006-2009 with an estimated budget of 20,000,000 Norwegian kroners for the following activities:
• Master’s and doctoral degree scholarships (both regular and flexible);
• Teaching and research on Gender, Migration and Human Trafficking as well as the publication of the Gender, Technology and Development (GTD) journal;
• Academic cooperation with the Norwegian Institutions, especially with NTNU.

AIT has also initiated academic cooperation with the Coordinating Committee for Geoscience Programmes in East and Southeast Asia (CCOP) in the fields of petroleum resources technology and geotechnical engineering. An MOU was signed in June 2005. CCOP is an intergovernmental organization with a mission to facilitate and coordinate the implementation of applied geoscience programs in East and Southeast Asia in order to contribute to economic development and an improved quality of life within the region. Norway is one of the cooperating countries of CCOP.

The NORAD Review was carried out at AIT on 22-26 August 2005.

Pakistan
Collaborative activities with Pakistan at the ministry and university levels have been launched to assist in the postgraduate education of Pakistani government officials and university lecturers and staff. In 2003, AIT signed an MoU with the Higher Education Commission (HEC) for doctoral and master’s degree scholarships for HEC nominated candidates admitted in the August 2003, January 2004 and August 2004 semester intakes. A new MoU between HEC and AIT was signed in January 2005 in which HEC will provide scholarship to 30 Pakistani faculty members to pursue their master’s at AIT. The MoU is for five years starting August 2005, when 11 HEC nominated candidates joined AIT.

The University of Balochistan (UOB) has requested AIT’s assistance in the capacity building and human resource development through the needs assessment of various identified departments and also by sending faculty members for doctoral degree programs at AIT. The needs assessment was carried out in August 2005.

In April 2005, AIT and Lahore College for Women University (LCWU) signed an agreement on development cooperation. The formal accord covering the period from April 2005 to December 2008 provides human resource development for LCWU faculty. Two women nominated by LCWU joined AIT in August 2005.

Philippines
The Department of Science and Technology, Philippines-AIT 2003-2008 MoU provides fellowships to Filipino students nominated by DOST to AIT. So far, only one candidate has been nominated but there was no admission yet. AIT will follow-up with DOST to have the program re-invigorated. As the Philippines is no longer a major scholarship recipients, AIT’s thrust in the Philippines has been to establish academic and research cooperation programs with leading Philippine universities and research institutions such as the Philippine Rice Research Institute.

Sri Lanka
Several MoUs have been signed with the Ministry of Human Resource Development, Education and Cultural Affairs, the University of Peradeniya, and the Open University of Sri Lanka (OUSL) for both degree and non-degree training programs for Sri Lankan nationals at AIT. Under the MoUs with OUSL and University of Peradeniya, three doctoral candidates from each institution will enroll in August 2005 semester intake, all fully funded by Sri Lanka.

The AIT tsunami task force team went to Sri Lanka in June to visit some of the affected areas in the Southern part of Sri Lanka after which AIT could submit a proposal to the minister for Urban Development and Water Supply for highlighting AIT’s role in line with the National Task Force for Rebuilding the Nation (TAFREN). The funding for the proposal if accepted by TAFREN will be from the government of Sri Lanka. AIT will be a part of an important tsunami reconstruction project. A more detailed assessment prior to the proposal was carried out in late July 2005.

The fourth batch (General Information Technology) of the Professional Development Program for Provincial Level Trainers of Teachers (25 teachers) teaching Subjects Using English Medium in Sri Lankan Secondary Schools took place from January to April 2005. Three batches completed the course in 2004. The World Bank through the Improving the Relevance and Quality of University Education Project is funding staff of the Rajarata University for the non-resident doctoral program. One enrolled in January 2005 and two more in August 2005. The MoU with the Sri Lanka Council for Agricultural Research Policy is under consideration by the minister of Urban Development and Water Supply, deputy minister of Education and the Ministry of Foreign Affairs.

The National Task Force for Rebuilding the Nation (TAFREN), chaired by H.E. the Sri Lankan President and the Ministry of Urban Development and Water Supply is one of the...
key ministries entrusted to handle this task, along with the Ministry of Foreign Affairs.

The AIT Extension trained 75 secondary school teachers, 75 personnel from the private/corporate sector, 30 from the Department of National Budget, 25 for disaster management training and another 20 from the Ministry of Education, bringing the total expected number of Sri Lankan trainees to 225 in the year 2005.

**Switzerland**

Switzerland is AIT’s major development partner and the biggest scholarships provider for students from Cambodia, Laos and Vietnam. Under the MoU 2004-2008, Switzerland through the Swiss Development Cooperation Agency (SDC) will provide 33 master’s degree scholarships for studies in environment and sustainable development. 33 scholarships were offered in academic year 2005 intakes, the students have completed the Bridging Program and have enrolled in the master degree program in August 2005.

AIT has recently initiated the development of a new stage of the Aqua Outreach Project (AOP), which has been supported by Sida for the past 16 years. AOP has demonstrated the important role AIT could play as a development agent within the region and its potential to act as a bridge between the “regional” with the “local”. The proposed new initiative will establish a field based aquatic resources development program known as Wetlands Alliance. The Wetlands Alliance Programme will be implemented in partnerships with three other regional institutions i.e. The WorldFish Center, WWF and the Coastal Resources Institute (CORIN). The partners share a common goal of: building local capacity for sustainable aquatic resources management to improve livelihoods and food security for the rural poor.

In September 2004, AIT submitted a concept paper to Sida for the development of a new stage of AOP through the wetlands alliance. In February 2005, Sida informed AIT of its decision to go ahead with the in-depth preparation of the proposed program. Accordingly, a work plan was submitted to Sida on 3 March 2005. Sida would provide 1,907,115 Swedish kronors to AIT during the preparatory phase in 2005 for the development of an elaborate program to be carried out in the subsequent years.

**Appendix**

The AIT Extension trained 75 secondary school teachers, 75 personnel from the private/corporate sector, 30 from the Department of National Budget, 25 for disaster management training and another 20 from the Ministry of Education, bringing the total expected number of Sri Lankan trainees to 225 in the year 2005.

**Taiwan**

In order to revitalize relationships with Taiwan, AIT President Said Irandoust accompanied by Prof. Vilas Wwongse, vice president for external relations, visited Taipei in December 2005. As a follow-up, AIT will submit a proposal to the Ministry of Education, Taiwan, for scholarships, research and faculty secondment through the Taipei Economic & Cultural Office (TECO) in Thailand and a proposal to the Council for Economic Planning and Development, Taiwan, to consider AIT as one of the venues for Taiwan Merit Scholarship recipients to pursue their studies. With the help of senior alumni in Taiwan, AIT will make some necessary follow up with TECO in Thailand.

Chia Nan National University of Science and Pharmacy is planning to send sent two faculty members in scholarship to study doctoral programs at SOM in 2006.

**Thailand**

AIT’s programs in Thailand support the Thai government’s human resources development program, in particular complementing the Thai university system in producing doctoral degree graduates who will become faculty members. At the same time, Thailand has been a generous partner of AIT providing full scholarships through official Royal Thai Government assistance program to AIT under Their Majesties the King and Queen Scholarships for Asian students in technology, planning, management and the environment. A fellowship program, which is partial support from the government to Thai students to study at master’s and doctoral levels is also provided.

AIT signed a renewal of its land lease agreement for 30 years with the Budget Bureau, as well as new MoUs for academic and research collaboration with the Thammasat University (TU) and the National Science and Technology Development Agency (NSTDA), in a ceremony at AIT in June 2005 which was attended by the deputy permanent secretary of the Ministry of Finance, the rector of TU, the NTSDA president, acting AIT president and officials from all the aforementioned institutions.

The eighth five-year RTG-AIT Cooperation Plan (FY 2005-2009) which was endorsed by the Cabinet Screening Committee on 24 November 2004 was approved by the cabinet at its meeting on 28 December, 2004. The total
approved budget for the eighth five-year plan is 708,457,000 baht. When compared to the seventh five-year plan (FY 2000-2004) it is an 18 percent increase. Under the cooperation between the Royal Thai Government and AIT, master’s degree scholarships are being offered annually under Their Majesties the King and Queen Scholarships. For the academic year 2005, 34 scholarships were offered for Asian students, including Thais, for studies in technology, planning, management and the environment. In addition, 195 master’s degree fellowship and 14 doctoral degree RTG fellowships were also offered to Thai students as well as other students from Greater Mekong Subregion countries who meet RTG Fellowships eligibility criteria. The institute is also preparing submission of its proposal for cooperation with the RTG in 2006 onwards which covers scholarships, fellowships, joint research projects with Thai universities as well as request for funding institute operations.

In honour of Her Majesty Queen Sirikit on the auspicious occasion of Her Majesty’s 70th birthday anniversary, the Ministry of Energy of Thailand in cooperation with AIT launched in April 2005 Her Majesty Queen Sirikit Scholarships Program in energy conservation and renewable energy for Thai students. Funds for the scholarships will be provided from the Energy Conservation Promotion Fund. A total of three master’s and six doctoral scholarships are available annually for two years from August 2005 semester intake onwards.

A renewal of the collaboration is being worked out between Sripatum University (SPU), Thailand and AIT to enable SPU lecturers to study at AIT with funding from SPU to be complemented by Institute fellowships. At least four master’s and two doctoral students are expected annually.

AIT has existing agreements on academic and research cooperation with leading Thai universities and institutions such as the Chulabhorn Research Institute, Chulalongkorn University, Chiangmai University, Kasetsart University, Rajamangala Institute of Technology and Rajabhat Universities.

Under the five-year MoU with the Ministry of Agriculture and Cooperatives (MOAC) signed in 2003, five doctoral scholarships and four master’s degree scholarships were offered in August 2005 to Thai students nominated by MOAC. The scholarships cover the full study costs of the students.

Vietnam
An increasing number of Vietnamese students, who are state officials or employees, are being supported in their study program at the master’s and doctoral degree levels in AIT. For the past several years, the Vietnamese Government through the Ministry of Education and Training (MOET), as well as state agencies such as Vietnam Oil & Gas Corporation (Petro Vietnam), Electricity of Vietnam (EVN) and the Post and Telecommunications of Ho Chi Minh City have provided master’s and doctoral scholarships to Vietnamese officials for study at AIT either in the regular program at AIT or in the two-stage program at AIT Vietnam and AIT. All these scholarship programs are administered in the forms of MoUs, MoAs or special agreements.

In addition, AIT signed a similar scholarship program with the Project 300 of Ho Chi Minh City Vietnam. The P300 is a Training Project for 300 prospective master’s/doctorate awardees being undertaken by the Ho Chi Minh City local government for their Vietnamese officials and staff. Fourteen scholarships were offered in August 2005 intake.

AIT’s signing of agreements this year will bring 130 students (EVN - 65, MOET - 25, Petro Vietnam - 20 and HCMC Program 300 - 20) to AIT starting this August 2005 Semester. The full fee paying equivalent will be around 100. In addition Hue University and the Ministry of Natural Resources and Environment of Vietnam have also expressed interest in sending 20 staff for the doctoral and 15 under the masters program.

The AIT Center in Vietnam continues to be an international gateway for technology transfer supporting national development of Vietnam through post-graduate and short-term training, information services, research and consultancy.

International Funding Organizations/Foundations/Corporate Sector

AIT also continues to maintain and launch new initiatives aimed at bringing international funding organizations, foundations and the corporate sector to partner AIT in Asia’s HRD, R&D and institutional capacity building. Notable among these programs are:

ADB-JSP
Since 1989, the Asian Development Bank through the ADB-Japan Scholarships Program (ADB-JSP) has been providing scholarships to students from developing member countries of ADB for study at AIT and other Asian institutions. ADB priorities are for students from developing ADB member countries in Central Asia, Greater Mekong Sub-region and South Asia. Eight master’s scholarships were approved by ADB for August 2005 intake. AIT is also exploring the possibility for ADB-JSP to consider supporting doctoral degree students, given the increasing
need for doctoral degree training from Asian developing countries.

India
AIT signed a Memorandum of Understanding on a partnership program with Tata Technologies Ltd. of India for scholarships support of Indian students in Industrial Systems Engineering and International Business fields of study.

JJ/WBGSP
The Japanese Government, through the Joint Japan/World Bank Graduate Scholarship Program (JJ/WBGSP) has been providing master’s and doctoral degree scholarships to Asian students who meet JJ/WBGSP scholarship criteria. A total of 25 AIT students were funded by JJ/WBGSP in the 2005 academic year. JJ/WBGSP scholarships are provided to AIT students from Bangladesh, Cambodia, Laos, Myanmar, the Philippines and Vietnam. As the World Bank does not need institutional endorsement, many of the scholars were also receiving some AIT fellowships as specified in the offer of admission issued to them by AIT, and JJ/WBGSP provides support for the major tuition costs not covered by the AIT fellowships.

USA
Since 1993, the Starr Foundation has provided an annual support of one master’s degree scholarship for an outstanding Thai student to study at AIT. Beginning in 2003, an additional master’s scholarship was approved for a Vietnamese student to study at AIT each year. The Starr Foundation scholarships are normally awarded to outstanding students to study in the fields that contribute to sustainable development of the region. Two Starr Foundation scholars enrolled in the academic year 2005 at AIT.

The Ford Foundation, through its International Fellowships Program (IFP) funded 13 scholars, from China, Vietnam and Thailand to study in a master’s degree program at AIT in the academic year 2005. The MoU between IFP and AIT was renewed in 2004 where IFP will continue to provide support for the major tuition costs and AIT will provide 12 some tuition fellowship.

Collaboration with the AIT Alumni Association
As of December 2005, AIT has graduated 14,020 from 76 countries and territories. In order to maintain and strengthen the existing partnership between the Institute and its alumni, the Alumni Relations Office (ARO) has taken greater scope/responsibilities with a view of proactive efforts to work with the AIT Alumni Association (AITAA) Mother Chapter and its national chapters and alumni at large to jointly promote AIT’s academic programs as well as launch new initiatives that will contribute to the long term viability/sustainability on the institute.

AITAA national chapters and individual alumni have helped AIT promotions and student recruitment activities in various countries.

An AIT Prominent Alumni Lecture Series was introduced and jointly organized by AIT and AITAA Mother Chapter to provide recognition to AIT alumni who have distinguished themselves and their alma mater through lifetime achievement and professional accomplishments. Three lectures were organized: “Power Development in the Greater Mekong Sub-region” was given by Dr. Subin Pinkayan (WRE ’61), chairman of the SEATEC Group of Companies in February 2005; “Irrigation Water Management for Sustained Agricultural productivity in Asia” was given by Prof. Dr. Rodolfo C. Undan (WRE ’69), president of Central Luzon State University, Philippines in May 2005; “Sustainable Transportation Development in Taiwan Area” was presented by Mr. Shih-Yi George Chen (TRE ’72), convener of Sustainable Development Division, National Policy Foundation and board director of The China Road Federation, former acting minister and executive vice minister of the Ministry of Transportation and Communications, Taiwan. It has been planned to continue and organize the lectures in 2006.

In order to continually inform alumni body, the quarterly AIT Alumni Newsletter (electronic version) July 2006 issue has been uploaded to the Web. The Alumni Relations Unit has also maintained a mailing list alumnibody@ait.ac.th with over 8,000 active e-mail addresses of alumni.
To the Board of Trustees of Asian Institute of Technology

I have audited the balance sheets of Asian Institute of Technology as at 31 December 2005 and 2004 and the related statements of revenues and expenditure, changes in fund balances and cash flows for each of the years then ended. These financial statements are the responsibility of the Organization’s management. My responsibility is to express an opinion on these financial statements based on my audits.

I conducted my audits in accordance with generally accepted auditing standards. Those standards require that I plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. I believe that my audits provide a reasonable basis for my opinion.

In my opinion, the financial statements referred to above present fairly, in all material respects, the financial positions of Asian Institute of Technology as at 31 December 2005 and 2004, the revenues and expenditures, the changes in fund balances and cash flows for each of the year then ended in conformity with generally accepted accounting principles appropriate for non-profit organization as set out in Note 2 to the financial statements.

Somboon Supasiripinyo
Certified Public Accountant
Registration number 3731

KPMG Phoomchai Audit Ltd.
Bangkok
4 August 2006
### Asian Institute of Technology

#### Balance Sheets
**As at 31 December 2005 and 2004**

### Assets

<table>
<thead>
<tr>
<th>Note</th>
<th>2005 (in Baht)</th>
<th>2004 (in Baht)</th>
<th>Restated (in Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>5</td>
<td>151,393,545</td>
<td>472,643,210</td>
</tr>
<tr>
<td>Fixed deposits</td>
<td>6</td>
<td>195,586,241</td>
<td>184,011,156</td>
</tr>
<tr>
<td>Accounts receivable and accrued income</td>
<td>7</td>
<td>90,174,663</td>
<td>104,456,314</td>
</tr>
<tr>
<td>Receivables from Program fund</td>
<td></td>
<td>28,273,991</td>
<td>95,216,074</td>
</tr>
<tr>
<td>Advance deposits</td>
<td></td>
<td>245,216</td>
<td>245,217</td>
</tr>
<tr>
<td>Inventories</td>
<td></td>
<td>398,524</td>
<td>397,022</td>
</tr>
<tr>
<td>Assets held on behalf of donors</td>
<td>10</td>
<td>431,987,744</td>
<td>420,631,740</td>
</tr>
<tr>
<td>Assets held on behalf of UNEP RRC.AP</td>
<td>11</td>
<td>225,737,851</td>
<td>106,851,998</td>
</tr>
<tr>
<td><strong>Total current assets</strong></td>
<td></td>
<td><strong>1,123,797,775</strong></td>
<td><strong>1,384,452,731</strong></td>
</tr>
<tr>
<td><strong>Non-current assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property and equipment</td>
<td>8</td>
<td>885,983,433</td>
<td>844,959,327</td>
</tr>
<tr>
<td><strong>Total non-current assets</strong></td>
<td></td>
<td><strong>885,983,433</strong></td>
<td><strong>844,959,327</strong></td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td></td>
<td><strong>2,009,781,208</strong></td>
<td><strong>2,229,412,058</strong></td>
</tr>
</tbody>
</table>

### Liabilities and Fund Balances

<table>
<thead>
<tr>
<th>Note</th>
<th>2005 (in Baht)</th>
<th>2004 (in Baht)</th>
<th>Restated (in Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>9</td>
<td>94,505,355</td>
<td>143,128,020</td>
</tr>
<tr>
<td>Advances from Program fund</td>
<td></td>
<td>181,202,018</td>
<td>287,589,486</td>
</tr>
<tr>
<td>Deposits</td>
<td></td>
<td>7,107,533</td>
<td>5,441,696</td>
</tr>
<tr>
<td>Due to donors, and liabilities, of Agency fund</td>
<td>10</td>
<td>431,987,744</td>
<td>420,631,740</td>
</tr>
<tr>
<td>Due to UNEP RRC.AP</td>
<td>11</td>
<td>225,737,851</td>
<td>106,851,998</td>
</tr>
<tr>
<td><strong>Total current liabilities</strong></td>
<td></td>
<td><strong>940,540,501</strong></td>
<td><strong>963,642,940</strong></td>
</tr>
<tr>
<td><strong>Fund balances</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unrestricted</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General-fund balance</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Restricted</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific-fund balances</td>
<td></td>
<td>131,580,259</td>
<td>124,757,382</td>
</tr>
<tr>
<td>Program fund balance</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Capital funds balances</td>
<td></td>
<td>895,849,330</td>
<td>855,342,712</td>
</tr>
<tr>
<td>General reserve</td>
<td></td>
<td>41,811,118</td>
<td>285,669,024</td>
</tr>
<tr>
<td><strong>Total fund balances</strong></td>
<td></td>
<td><strong>1,069,240,707</strong></td>
<td><strong>1,265,769,118</strong></td>
</tr>
<tr>
<td><strong>Total liabilities and fund balances</strong></td>
<td></td>
<td><strong>2,009,781,208</strong></td>
<td><strong>2,229,412,058</strong></td>
</tr>
</tbody>
</table>

The accompanying notes are integral part of these financial statements.
Asian Institute of Technology
Statements of Revenue and Expenditure
For the years ended 31 December 2005 and 2004

<table>
<thead>
<tr>
<th>Note</th>
<th>2005 (in Baht)</th>
<th>2004 (Restated in Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenues</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition and other fees</td>
<td>477,164,925</td>
<td>476,055,263</td>
</tr>
<tr>
<td>Research grants and contracts</td>
<td>245,890,334</td>
<td>287,543,876</td>
</tr>
<tr>
<td>Support operations</td>
<td>153,702,925</td>
<td>167,267,609</td>
</tr>
<tr>
<td>Training</td>
<td>103,956,636</td>
<td>92,049,470</td>
</tr>
<tr>
<td>Other contributions</td>
<td>28,667,861</td>
<td>27,474,831</td>
</tr>
<tr>
<td>Faculty secondments</td>
<td>66,069,182</td>
<td>44,776,720</td>
</tr>
<tr>
<td><strong>Total revenues</strong></td>
<td>1,075,451,863</td>
<td>1,095,167,769</td>
</tr>
</tbody>
</table>

| **Expenditures** | | |
| Salaries and benefits | 646,118,696 | 679,096,234 |
| Materials, supplies and services | 262,036,348 | 260,549,847 |
| Contracted services | 87,875,674 | 72,758,716 |
| Communication and travel | 70,398,863 | 67,805,804 |
| Utilities and insurance | 41,401,457 | 41,419,730 |
| Faculty secondments | 66,069,182 | 44,776,720 |
| **Total expenditure** | 1,173,900,220 | 1,166,407,051 |

| **Operating deficit** | (98,448,357) | (71,239,282) |

| 8 | 101,317,949 | 90,690,879 |

| **Excess of expenditure over revenues** including depreciation | (199,766,306) | (161,930,161) |

| **Non operating income/(expenditure)** | | |
| Investment income | 16,308,591 | 10,903,066 |
| Gain (loss) on exchange rate | 11,254,949 | (6,350,334) |
| Gain (loss) on disposal of assets | 1,692,417 | (2,259,951) |
| **Net excess of expenditure over revenues** | (170,510,349) | (159,637,380) |

The accompanying notes are integral part of these financial statements
## ASIAN INSTITUTE OF TECHNOLOGY

### STATEMENTS OF CHANGES IN FUND BALANCES

**FOR THE YEARS ENDED 31 DECEMBER 2005 (with comparative totals for the year ended 31 December 2004)**

<table>
<thead>
<tr>
<th>Notes</th>
<th>Unrestricted current fund</th>
<th>Restricted fund - general</th>
<th>Endowment fund</th>
<th>Program fund</th>
<th>Restricted general reserve</th>
<th>Property and equipment</th>
<th>Liquid assets</th>
<th>31 December 2005</th>
<th>31 December 2004</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in Baht)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24,740,561</td>
<td>124,757,382</td>
<td>263,369,907</td>
<td>267,877,076</td>
<td>847,119,733</td>
<td>10,470,468</td>
<td>1,558,335,127</td>
<td>1,717,406,694</td>
<td></td>
</tr>
<tr>
<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></td>
<td>Balances as at 1 January, as previously reported</td>
<td>-</td>
<td>24,740,561</td>
<td>124,757,382</td>
<td>263,369,907</td>
<td>267,877,076</td>
<td>847,119,733</td>
<td>10,470,468</td>
<td>1,558,335,127</td>
<td>1,717,406,694</td>
</tr>
<tr>
<td></td>
<td>Fund balances of UNEP RRC.AP as at 1 January</td>
<td>-</td>
<td>(26,948,613)</td>
<td>-</td>
<td>(70,996,496)</td>
<td>-</td>
<td>(2,247,489)</td>
<td>-</td>
<td>(100,192,598)</td>
<td>(104,642,133)</td>
</tr>
<tr>
<td></td>
<td>Interfund transfer</td>
<td>-</td>
<td>2,208,052</td>
<td>-</td>
<td>-</td>
<td>(2,208,052)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Reclassification of Program fund balances</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(192,373,411)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(192,373,411)</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Adjusted balances as at 1 January</td>
<td>-</td>
<td>-</td>
<td>124,757,382</td>
<td>-</td>
<td>285,669,024</td>
<td>10,470,468</td>
<td>1,265,769,118</td>
<td>1,612,764,561</td>
<td></td>
</tr>
</tbody>
</table>

**Additions (Deductions):**

<table>
<thead>
<tr>
<th>Surplus/(deficit) for the year</th>
<th>(127,636,182)</th>
<th>32,465,231</th>
<th>109,033</th>
<th>11,323,888</th>
<th>7,779,731</th>
<th>(99,716,706)</th>
<th>5,164,656</th>
<th>(170,510,349)</th>
<th>(159,637,380)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>(127,636,182)</td>
<td>32,465,231</td>
<td>124,866,415</td>
<td>11,323,888</td>
<td>293,448,755</td>
<td>745,155,538</td>
<td>15,635,124</td>
<td>1,095,258,769</td>
<td>1,453,127,181</td>
</tr>
</tbody>
</table>

**Transfers to/(from) other funds:**

- **General fund**
  - General fund
  - Restricted current fund
  - General Reserve
  - Program fund
  - Capital fund
  - Property and equipment
  - Liquid assets

<table>
<thead>
<tr>
<th>Transfers to/(from) funds held on behalf of others</th>
<th>(1,441,719)</th>
<th>6,713,844</th>
<th>-</th>
<th>(72,995,346)</th>
<th>642,653</th>
<th>(7,065,577)</th>
<th>(74,146,145)</th>
<th>5,214,421</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfers to/(from) funds of UNEP RRC.AP</td>
<td>-</td>
<td>-</td>
<td></td>
<td>(233,945,582)</td>
<td>-</td>
<td>-</td>
<td>233,945,582</td>
<td>95,216,075</td>
</tr>
<tr>
<td>Reclassification to receivables from Program fund</td>
<td>-</td>
<td>-</td>
<td></td>
<td>(185,807,924)</td>
<td>-</td>
<td>-</td>
<td>(185,807,924)</td>
<td>287,589,468</td>
</tr>
<tr>
<td>Reclassification to advance from Program fund</td>
<td>-</td>
<td>-</td>
<td></td>
<td>(251,637,637)</td>
<td>150,693,792</td>
<td>15,635,124</td>
<td>(26,018,062)</td>
<td>(187,358,063)</td>
</tr>
<tr>
<td>Total</td>
<td>127,636,182</td>
<td>32,465,231</td>
<td>6,713,844</td>
<td>(11,323,888)</td>
<td>(215,167,367)</td>
<td>150,693,792</td>
<td>(15,635,124)</td>
<td>(26,018,062)</td>
</tr>
<tr>
<td>Balances as at 31 December,</td>
<td>-</td>
<td>-</td>
<td>131,580,259</td>
<td>-</td>
<td>41,811,118</td>
<td>895,849,330</td>
<td>-</td>
<td>1,069,240,707</td>
</tr>
</tbody>
</table>

The accompanying notes are integral part of these financial statements.
### Cash flows from operating activities

<table>
<thead>
<tr>
<th>Note</th>
<th>2005</th>
<th>2004 Restated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in Baht)</td>
<td></td>
</tr>
<tr>
<td>Opening fund balances</td>
<td>1,265,769,118</td>
<td>1,612,764,561</td>
</tr>
<tr>
<td>Closing fund balances</td>
<td>1,069,240,707</td>
<td>1,265,769,118</td>
</tr>
<tr>
<td>Movement in fund balances</td>
<td>(196,528,411)</td>
<td>(346,995,443)</td>
</tr>
</tbody>
</table>

### Adjustments to reconcile movement of fund balance provided by (used in) operating activities:

- Prior year adjustment to property and equipment: -
- (Gain) loss on disposal of assets: (1,692,417) 2,259,951
- Depreciation: 101,317,949 90,690,879
- Unrealised (gain) loss on exchange: 15,266,309 (2,738,507)

### Movement in fund balance from operating activities before changes in operating assets and liabilities

<table>
<thead>
<tr>
<th>Description</th>
<th>2005</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement in fund balance from operating activities before changes in operating assets and liabilities</td>
<td>(153,758,633)</td>
<td>(37,205,244)</td>
</tr>
</tbody>
</table>

### Changes in operating assets and liabilities

<table>
<thead>
<tr>
<th>Description</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts receivable and accrued income</td>
<td>14,281,651</td>
</tr>
<tr>
<td>Receivables from sponsored programs</td>
<td>66,942,084</td>
</tr>
<tr>
<td>Deposits</td>
<td>-</td>
</tr>
<tr>
<td>Inventories</td>
<td>(1,502)</td>
</tr>
</tbody>
</table>

### Changes in operating liabilities

<table>
<thead>
<tr>
<th>Description</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>(52,039,664)</td>
</tr>
<tr>
<td>Advances from sponsored programs</td>
<td>(102,970,469)</td>
</tr>
<tr>
<td>Deposits payable</td>
<td>1,665,837</td>
</tr>
</tbody>
</table>

### Net cash used in operating activities

<table>
<thead>
<tr>
<th>Description</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net cash used in operating activities</td>
<td>(153,758,633)</td>
</tr>
</tbody>
</table>

### Cash flows from investing activities

<table>
<thead>
<tr>
<th>Description</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Increase) decrease in fixed deposits</td>
<td>158,361,933</td>
</tr>
<tr>
<td>Proceeds from disposal of equipment</td>
<td>-</td>
</tr>
<tr>
<td>Increase in property and equipment</td>
<td>(80,420,309)</td>
</tr>
</tbody>
</table>

### Net cash provided by/(used in) investing activities

<table>
<thead>
<tr>
<th>Description</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net cash provided by/(used in) investing activities</td>
<td>77,941,624</td>
</tr>
</tbody>
</table>

### Cash flows from financing activities

<table>
<thead>
<tr>
<th>Description</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effects of foreign exchange translation on cash and cash equivalents</td>
<td>(9,166,685) 1,093,295</td>
</tr>
</tbody>
</table>

### Net increase/(decrease) in cash and cash equivalents

<table>
<thead>
<tr>
<th>Description</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net increase/(decrease) in cash and cash equivalents</td>
<td>41,829,675</td>
</tr>
<tr>
<td>Cash and cash equivalents at beginning of year</td>
<td>430,813,535</td>
</tr>
<tr>
<td>Cash and cash equivalents at end of year</td>
<td>422,631,586</td>
</tr>
</tbody>
</table>

### Supplementary disclosures of cash flows information:

- Cash paid during the year
  - Interest: -
  - Income tax: -

The accompanying notes are integral part of the financial statements.
<table>
<thead>
<tr>
<th>Notes</th>
<th>Asset Description</th>
<th>2005</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Cash and cash equivalents</td>
<td>39,992,015 (26,388,829)</td>
<td>100,431,966 (82,881,399)</td>
</tr>
<tr>
<td>6</td>
<td>Accounts receivable and accrued income</td>
<td>33,836,450</td>
<td>30,194,061</td>
</tr>
<tr>
<td>7</td>
<td>Receivables from sponsored programs</td>
<td>181,355</td>
<td>63,861</td>
</tr>
<tr>
<td>8</td>
<td>Inventories</td>
<td>398,524</td>
<td>397,022</td>
</tr>
<tr>
<td>9</td>
<td>Accounts payable and accrued expense</td>
<td>71,999,922</td>
<td>8,037,571</td>
</tr>
<tr>
<td>10</td>
<td>Due to donors, and liabilities, of Agency fund</td>
<td>2,058,915</td>
<td>5,048,618</td>
</tr>
<tr>
<td>11</td>
<td>Due to UNEP RRC.AP</td>
<td>71,999,922</td>
<td>13,016,636</td>
</tr>
<tr>
<td>12</td>
<td>Total current assets</td>
<td>74,058,737</td>
<td>13,085,675</td>
</tr>
<tr>
<td>13</td>
<td>Property and equipment</td>
<td>131,580,259</td>
<td>131,580,259</td>
</tr>
<tr>
<td>14</td>
<td>Total assets</td>
<td>204,638,996 (144,678,647)</td>
<td>264,665,924 (191,299,258)</td>
</tr>
</tbody>
</table>

The accompanying notes are an integral part of the financial statements.
### ASIAN INSTITUTE OF TECHNOLOGY

#### STATEMENTS OF REVENUE AND EXPENDITURE BY FUND FOR THE YEARS ENDED 31 DECEMBER 2005 AND 2004

<table>
<thead>
<tr>
<th>Notes</th>
<th>Restricted funds</th>
<th>Unrestricted current fund</th>
<th>Total</th>
<th>31 December 2005</th>
<th>Restated</th>
<th>31 December 2004</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Restricted fund - general reserve</td>
<td>421,632,541</td>
<td>86,801,118</td>
<td>143,947,128</td>
<td>32,862,436</td>
<td>534,790,481</td>
</tr>
<tr>
<td></td>
<td>Program fund</td>
<td>52,700,538</td>
<td>67,649,134</td>
<td>242,362</td>
<td>7,207,884</td>
<td>86,063,182</td>
</tr>
<tr>
<td></td>
<td>Endowment fund</td>
<td>1,245,334</td>
<td>18,699,849</td>
<td>97,086,827</td>
<td>3,335,297</td>
<td>167,335,288</td>
</tr>
<tr>
<td></td>
<td>Restricted capital funds</td>
<td>5,796,019</td>
<td>18,979,495</td>
<td>535,250</td>
<td>3,357,097</td>
<td>28,667,861</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>433,644,311</td>
<td>298,062,306</td>
<td>535,250</td>
<td>3,611,732</td>
<td>28,667,861</td>
</tr>
<tr>
<td></td>
<td>Expenditures</td>
<td>-</td>
<td>-</td>
<td>292,368</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Faculty secondments</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Total expenditures</td>
<td>534,790,481</td>
<td>269,219,107</td>
<td>292,368</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Excess of revenues over expenditure (expenditure over revenues)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Operating surplus/(deficit)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Net excess of revenues over expenditure (expenditure over revenues)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Depreciation</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Non operating income (expenditures) including depreciation</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Gain (loss) on disposal of assets</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Gain (loss) on exchange rate</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Investment income</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Notes
- The accompanying notes are an integral part of the financial statements.
- Revenues: Tuition and other fees, Research grants and contracts, Support operations, Training, Other contributions, Other contributions, Other contributions, Other contributions, Other contributions.
- Expenditures: Salaries and benefits, Materials, supplies and services, Contracted services, Communication and travel, Utilities and insurance, Faculty secondments, Faculty secondments, Faculty secondments, Faculty secondments.
- Operating surplus/(deficit): (131,146,170) 28,943,199.
- Net excess of revenues over expenditure: (127,636,182) 32,465,231.
For the year ended 31 December 2005 and 2004

These notes form an integral part of the financial statements. The financial statements were authorized for issue by the President of the Institute on 4 August 2006.

1. General information

The Asian Institute of Technology ("the Institute") is an international post-graduate institution. The Institute’s operates on not-for-profit basis. The Institute is located at Km 42 Paholyothin Highway, Klong Luang, Pathum Thani.

The principal activities of the Institute are providing programs in engineering, science, advanced technologies and related management and administration.

2. Basis of preparation of financial statements

The financial statements issued for Thai reporting purposes are prepared in the Thai language. This English translation of the financial statements has been prepared for the convenience of readers not conversant with the Thai language.

In accordance with Announcement No 006/2542-2544 Compliance with Accounting Standards issued by the Institute of Certified Accountants and Auditors in Thailand, an entity is permitted to refer to other accounting standards where no guidance exists in Thai GAAP provided these reference points are identified. In preparing these financial statements the Institute referred to International Financial Reporting Standards (IFRS) together with advice available from the US (Statement of Financial Accounting Standards 117) and the UK (Statement of Recommended Practice: Accounting for Further and Higher Education Institutions).

The financial statements are presented in Thai Baht. They are prepared on the historical cost basis except for those items specified in the notes to financial statements.

The preparation of financial statements in conformity with TAS requires management to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets, liabilities, income and expenses. The estimates and associated assumptions are based on historical experience and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis of making the judgements about carrying amounts of assets and liabilities that are not readily apparent from other sources.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised, if the revision affects only that period, or in the period of the revision and future periods, if the revision affects both current and future periods.

Fund Accounting

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 or 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. The governing board retains full control of unrestricted funds to use in achieving institutional objectives.

The purposes and objects of the funds are as follows:

Unrestricted Current Fund (Fund 10)

This fund is the operating account of AIT. It is available for general operating purposes without restrictions, such as might be imposed by a grant agency or donor.

Restricted Fund-General (Fund 21)

The use of this fund is restricted to those units holding non-profit making status. This includes: AIT Center, AITCV, certain campus services, academic-related services supporting academic units and certain administrative functions.

Restricted Endowment Fund (Fund 22)

The Endowment Fund is used where donors have stipulated, as a condition of their gift, that the principal is to be maintained inviolate and in perpetuity. Some, or all, of the income from the investments may be used to further the objectives of the endowment.

Restricted Fund-General Reserve (Fund 23)

Donors and other agencies have granted funds to the Institute on the basis that the principal is held inviolate and in perpetuity. The income from the fund is available to the Institute to be expended in accordance with agreements established by the gifting party at the point of the donation or grant. The Board of Trustees stipulates that the surplus of the unrestricted current fund each year is transferred to the General Reserve and that the funds must be held for future use.

Sponsored Program Fund (Fund 30)

The sponsored program fund is subject to restrictions by donors or other agencies limiting its use to funding specific research projects, conferences, short courses, workshops or similar projects.

Capital Fund (Fund 41)

This fund holds the Institute’s property, plant and equipment, including library books.

Capital Fund - Liquid Assets (Fund 42)

This fund records the renovations, repairs and replacement to the existing assets.

Agency Fund (accounted for as Fund 50)

These funds are held on behalf of donors and other agencies and are disbursed in accordance with their instructions. AIT has no title to these funds and the associated revenues and expenditures have been excluded from the statement of revenue and expenditure. The assets held on behalf of these others have been disclosed in the balance sheet together with the associated liability for the same amount to these other parties.
3. Restatement of form and content of financial statements

The Institute undertook a fundamental review of the form and content of its financial statements. There were two major drivers to the restatement. First the Institute desired to show the financial statements on a basis which gave a clearer view of its affairs. Second, that funds to which the Institute has no title, the escrow funds held on behalf of third parties, are clearly identified as such.

During 2004, the Institute reviewed the accounting treatment relating to fixed assets acquired in connection with the Program Fund. Assets that are held by the Institute should be capitalized as Property and Equipment in line with the accounting policy for owned assets. Those assets that were acquired prior to 2004 have been identified and adjustments made to reflect the proper accounting treatment.

During 2005, the Institute presented the funds to which the Institute has no title, the escrow funds held on behalf of third parties, separately from its own funds. The Institute presented the negative fund balances of the Program Fund as receivables from Program Fund and the positive fund balances as Advances from Program Fund.

4. Significant accounting policies

(a) Basis of preparation

The financial statements of the Institute comprise the funds of the Institute and those of its branch to which it holds title.

Branch

A Branch is an autonomous or semi-autonomous operating entity within an organization and which does not have a separate legal identity. The Branch will have separately identifiable assets, liabilities, cash flows, revenue and expenditure over which it has accountability.

(b) Foreign currencies

Foreign currency transactions

Transactions in foreign currencies are translated at the foreign exchange rates ruling at the date of the transaction.

Monetary assets and liabilities denominated in foreign currencies at the balance sheet date are translated to Thai baht at the foreign exchange rates ruling at that date. Foreign exchange differences arising on translation are recognized in the statement of revenue and expenditure.

Non-monetary assets and liabilities that are measured in terms of historical cost in a foreign currency are translated using the foreign exchange rates ruling at the date of the transaction. Non-monetary assets and liabilities denominated in foreign currencies that are stated at fair value are translated to Thai baht at the foreign exchange rates ruling at the date that fair value was determined.

Foreign entities

The assets and liabilities of foreign entities are translated to Thai baht at foreign exchange rates ruling at the balance sheet date.

The revenues and expenses of foreign entities, excluding foreign entities in hyperinflationary economies, are translated to Thai baht at rates approximating the foreign exchange rates ruling at the dates of the transactions.

The revenues and expenses of foreign entities in hyperinflationary economies are translated to Thai baht at foreign exchange rates ruling at the balance sheet date. Prior to translating the financial statements of foreign entities in hyperinflationary economies, financial statements, including comparatives, are restated to account for changes in the general purchasing power of the local currency. The restatement is based on relevant price indices at the balance sheet date.

(c) Trade and other receivables

Trade and other receivables (including balances with related parties) are stated at their invoice value less impairment losses.

Any impairment loss on doubtful receivables is assessed primarily on analysis of payment histories and future expectations of customer payments. Allowances made are based on historical write-off patterns and the aging of accounts receivables. Bad debts are written off when incurred.

(d) Inventories

Inventories are stated at the lower of cost and net realizable value.

Cost is calculated using the first in first out method and comprises all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition.

Net realizable value is the estimated selling price in the ordinary course of business less the estimated costs necessary to make the sale.

An allowance is made for all deteriorated, damaged, obsolete and slow-moving inventories.

(e) Property and equipment

Owned assets

Property and equipment are stated at cost less accumulated depreciation and impairment losses. The cost of self-constructed assets includes the cost of materials, direct labor, the initial assessment of the costs of dismantling (if relevant) and an appropriate proportion of production overheads.

Property that is being constructed or developed for future use as investment property is classified as property, plant and equipment and stated at cost until construction or development is complete, at which time it is reclassified as investment property.

Donated assets are stated at fair value at the time of donation, deemed cost. Subsequently they are stated at the deemed cost less accumulated depreciation.

Subsequent expenditure

Subsequent expenditure relating to an item of property, plant and equipment is added to the carrying amount of the asset when it is probable that the future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the Institute. All other subsequent expenditure is recognized as an expense in the period in which it is incurred.

Depreciation

Depreciation is charged to the statement of revenue and expenditure on a straight-line basis over the estimated useful lives of each part of an item of buildings and equipment. The estimated useful lives are as follows:
Financial Statements and Auditors' Report

Buildings 20 to 40 years
Furniture and equipment 5 to 10 years
Motor vehicles 8 to 15 years
Library acquisitions 6 years

No depreciation is provided on assets under construction.

The Institute calculated depreciation of each item of buildings and equipment on a monthly basis without considering the date using of those assets. The management of the Institute believes that the differences from the said method of calculation are immaterial.

(f) Employee benefit
 Defined contribution plans
 Obligations to defined contribution pension plans are recognized as an expense in the income statement as incurred.

(g) Provisions
 A provision is recognized in the balance sheet when the Institute has a present legal or constructive obligation as a result of a past event, and it is probable that an outflow of economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. If the effect is material, provisions are determined by discounting the expected future cash flows at a pre-tax rate that reflects current market assessments of the time value of money and, where appropriate, the risks specific to the liability.

(h) Trade and other payables
 Trade and other payables (including balances with related parties) are stated at cost.

(i) Revenue
 Revenue received for the provision of goods and services are recognized in the period in which the goods are provided or the services rendered.

Grant income
 Grant income is recognized when it is received due to the inherent uncertainty involved in both the rights to the revenue and the timing of the revenue.

Donations
 Due to the absence of any obligation on the donor to make the donation and the uncertain nature of the timing of receipt, donations have to be recognized on a cash basis.

Contribution in kind
 These represent services donated to the Institute in the form of a secondment of faculty or staff and where the value is estimated based on the approved Institute professional salary scale. The amounts are recognized as revenues and expenditures in the restricted general fund.

Investment income
 Investment income is recognized on an accrual basis.

(j) Expenses
 Expenses are recognized in the period they are incurred. Interest expense is recognized in the statement of revenue and expenditure as it accrues.

(k) Income tax
 No income tax provision is made in the financial statements as the Institute is exempt from payment of income tax in accordance with the notification issued in the Royal Gazette dated 25 October, 2510 B.E. (1967).

According to the announcement of ministry of Finance, the Institute has been exempted from Value Added Tax (VAT), except for services rendered by conference center following to Section 4(4) of the Royal Decree issued following to the Revenue Code which mentioned about VAT exemption (Book number) 239, 2534 B.E. (1991).

5. Cash and cash equivalents

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2004</th>
<th>Restated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in Baht)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bank accounts</td>
<td>64,762,618</td>
<td>86,566,073</td>
<td></td>
</tr>
<tr>
<td>Time deposits with maturity less than 3 months</td>
<td>86,630,927</td>
<td>386,077,137</td>
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<tr>
<td>Cash and cash equivalent</td>
<td>151,393,545</td>
<td>472,643,210</td>
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</tr>
<tr>
<td>Less Bank deposits pledged as collateral</td>
<td>(30,692,490)</td>
<td>(50,011,624)</td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents – net of collateral</td>
<td>120,701,055</td>
<td>422,631,586</td>
<td></td>
</tr>
</tbody>
</table>

As at 31 December 2005 time deposits of Baht 30,692,490 (2004: Baht 50,011,624) is pledged to secure a bank overdraft and provide collateral for outstanding letters of guarantee issued by the same bank (see note 16).

6. Fixed deposits

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2004</th>
<th>Restated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in Baht)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time deposits with maturity more than 3 months</td>
<td>195,586,241</td>
<td>184,011,156</td>
<td></td>
</tr>
</tbody>
</table>

7. Accounts receivable and accrued income

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2004</th>
<th>Restated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in Baht)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition and other fees</td>
<td>40,510,562</td>
<td>38,105,201</td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>7,674,298</td>
<td>17,080,738</td>
<td></td>
</tr>
<tr>
<td>Advances to employees and students</td>
<td>13,243,188</td>
<td>25,288,313</td>
<td></td>
</tr>
<tr>
<td>Accrued income</td>
<td>2,779,389</td>
<td>1,887,493</td>
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</tr>
<tr>
<td>Other receivables</td>
<td>22,701,494</td>
<td>20,003,654</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>3,265,732</td>
<td>2,090,915</td>
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<tr>
<td>Account receivable and accrued income</td>
<td>90,174,663</td>
<td>104,456,314</td>
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</table>
### 8. Property and equipment

<table>
<thead>
<tr>
<th></th>
<th>Campus Development</th>
<th>Furniture &amp; Motor Equipment</th>
<th>Library Vehicles Assets in Progress</th>
<th>Construction Total</th>
</tr>
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<tbody>
<tr>
<td><strong>Cost</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 1 January 2004</td>
<td>45,186,079</td>
<td>1,029,799,200</td>
<td>707,905,719</td>
<td>33,173,419</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>218,816,931</td>
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<td></td>
<td></td>
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<td>48,785,326</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>2,083,666,674</td>
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<tr>
<td>Additions</td>
<td>2,819,093</td>
<td>323,684</td>
<td>55,812,177</td>
<td>13,115,760</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disposals</td>
<td>-</td>
<td>-</td>
<td>(1,229,935)</td>
<td>(6,081,672)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfers</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 31 December 2004</td>
<td>48,005,172</td>
<td>1,069,181,935</td>
<td>762,487,961</td>
<td>27,091,747</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>231,932,691</td>
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<td></td>
<td></td>
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<td>18,075,870</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,156,775,376</td>
</tr>
<tr>
<td>Additions</td>
<td>310,998</td>
<td>56,397,826</td>
<td>62,257,934</td>
<td>12,712,427</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10,769,846</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,792,486</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>145,241,517</td>
</tr>
<tr>
<td>Disposals</td>
<td>-</td>
<td>-</td>
<td>(264,727)</td>
<td>(9,689,706)</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Transfers</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 31 December 2005</td>
<td>48,316,170</td>
<td>1,125,579,761</td>
<td>824,481,168</td>
<td>30,114,468</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>242,702,537</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20,868,356</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,292,062,460</td>
</tr>
</tbody>
</table>

#### Accumulated depreciation

|                      |                    |                             |                                    |                    |
| At 1 January 2004    | -                  | 425,280,394                 | 601,753,309                       | 20,891,079         |
|                      |                    |                             |                                    | 178,193,123        |
|                      |                    |                             |                                    | - 1,226,117,905    |
| Charge for the year  | - 26,168,038       | 49,122,746                  | 2,461,789                         | 12,938,306         |
|                      |                    |                             |                                    | - 90,690,879       |
| Impairment charges   | -                  | -                           | -                                  | -                  |
|                      |                    |                             |                                    |                   |
| Disposals            | -                  | -                           | (115,504)                         | (4,877,231)        |
|                      |                    |                             |                                    | -                   |
| Transfers            | -                  | -                           | -                                  | -                  |
|                      |                    |                             |                                    |                   |
| At 31 December 2004  | - 451,448,432      | 650,760,551                 | 18,475,637                        | 191,131,429        |
|                      |                    |                             |                                    | 188,877,060        |
|                      |                    |                             |                                    |                   |
| Charge for the year  | - 25,835,723       | 55,341,151                  | 3,162,851                         | 16,978,224         |
|                      |                    |                             |                                    | - 101,317,949      |
| Impairment charges   | -                  | -                           | -                                  | -                  |
|                      |                    |                             |                                    |                   |
| Disposals            | -                  | -                           | (193,658)                         | (6,861,313)        |
|                      |                    |                             |                                    | -                   |
| Transfers            | -                  | -                           | -                                  | -                  |
|                      |                    |                             |                                    |                   |
| At 31 December 2005  | - 477,284,155      | 705,908,044                 | 14,777,175                        | 208,109,653        |
|                      |                    |                             |                                    | - 1,406,079,027    |

#### Net book value

|                      |                    |                             |                                    |                    |
| At 31 December 2004  | 48,005,172         | 617,733,503                 | 111,727,410                       | 8,616,110          |
|                      |                    |                             |                                    | 40,801,262         |
|                      |                    |                             |                                    | 18,075,870         |
|                      |                    |                             |                                    | 844,959,327        |
| At 31 December 2005  | 48,316,170         | 648,295,606                 | 118,573,124                       | 15,337,293         |
|                      |                    |                             |                                    | 34,592,884         |
|                      |                    |                             |                                    | 20,868,356         |
|                      |                    |                             |                                    | 885,983,433        |
During 2004, the Institute reviewed the accounting treatment relating to fixed assets acquired in connection with the Program fund. Assets that are held by the Institute should be capitalized as Property and Equipment in line with the accounting policy for owned assets. Those assets that were acquired prior to 2004 have been identified and adjustments made to reflect the proper accounting treatment.

The Institute entered into an agreement with the Ministry of Finance to lease land for 30 years from 19 January 1971 to 18 January 2001; on expiry of the lease agreement it gave the Institute the right to continue to lease the land. The Council of State ruled that the rightful entity with which the Institute should sign a new lease agreement is Thammasat University. The Institute successfully renewed the lease with the Thammasat University on 10 June 2005. The new lease also contains a Memorandum of Understanding between the Institute and Thammasat University, concerning academic co-operation, as an integral part of the new lease agreement (see note 16).

Depreciation for the year ended 31 December 2005, amounted to Baht 101.32 million (2004: Baht 90.69 million) was included in the statement of revenue and expenditure.

As at 31 December 2005, the Company's assets with original cost of Baht 677.16 million (2004: Baht 654.62 million) was fully depreciated but are still in use.

9. Accounts payable and accrued expenses

<table>
<thead>
<tr>
<th></th>
<th>2005 (in Baht)</th>
<th>2004 Restated (in Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owing to suppliers</td>
<td>12,124,476</td>
<td>16,395,596</td>
</tr>
<tr>
<td>Advance received from donors</td>
<td>1,208,371</td>
<td>7,174,864</td>
</tr>
<tr>
<td>Provision for ISF tax</td>
<td>22,550,142</td>
<td>28,355,982</td>
</tr>
<tr>
<td>Advance from students</td>
<td>25,620,103</td>
<td>24,960,678</td>
</tr>
<tr>
<td>Accruals</td>
<td>2,345,136</td>
<td>23,327,075</td>
</tr>
<tr>
<td>Tax payable</td>
<td>13,557,836</td>
<td>15,881,787</td>
</tr>
<tr>
<td>Payables to staff</td>
<td>2,082,110</td>
<td>6,170,522</td>
</tr>
<tr>
<td>Other liabilities</td>
<td>15,017,181</td>
<td>20,861,516</td>
</tr>
<tr>
<td><strong>Account payable and accrued expenses</strong></td>
<td><strong>94,505,355</strong></td>
<td><strong>143,128,020</strong></td>
</tr>
</tbody>
</table>

10. Assets held on behalf of, and amounts due to, donors

The agency fund represents amounts held on behalf of donors and other agencies and are disbursed in accordance with their instructions. AIT has no title to these funds or the associated revenues and expenditures. The revenues generated and expenditure made by the fund is as follows:

<table>
<thead>
<tr>
<th></th>
<th>2005 (in Baht)</th>
<th>2004 Restated (in Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funds received from donors</td>
<td>255,653,321</td>
<td>398,136,760</td>
</tr>
</tbody>
</table>

Application of funds

- Salaries and other benefits | 55,703,165 | 46,798,773               |
- Scholarships | 239,333,503 | 222,337,189               |
- Contracted services | 860,748 | 1,896,008                |
- Communication and travel | 4,732,209 | 2,698,686                |
- Difference in exchange rated | 8,187,651 | -                      |

**Total funds applied** | **308,817,276** | **273,730,656** |

**Surplus/(deficit) for the year** | **(53,163,955)** | **124,406,104** |
Amount held on behalf of donors comprise:

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>421,472,342</td>
<td>368,376,047</td>
</tr>
<tr>
<td>Fixed deposits</td>
<td>1,793,988</td>
<td>41,292,913</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>8,721,414</td>
<td>10,962,780</td>
</tr>
<tr>
<td><strong>Total amounts held on behalf of donors</strong></td>
<td><strong>431,987,744</strong></td>
<td><strong>420,631,740</strong></td>
</tr>
<tr>
<td>Opening amounts due to donors</td>
<td>395,214,929</td>
<td>276,023,246</td>
</tr>
<tr>
<td>Surplus/(deficit) for the year</td>
<td>(53,163,955)</td>
<td>124,406,104</td>
</tr>
<tr>
<td>Transfers from other funds</td>
<td>81,502,644</td>
<td>877,904</td>
</tr>
<tr>
<td>Transfers to other funds</td>
<td>(7,389,014)</td>
<td>(6,092,325)</td>
</tr>
<tr>
<td>Closing amounts due to donors</td>
<td>416,164,604</td>
<td>395,214,929</td>
</tr>
<tr>
<td>Liabilities</td>
<td>15,823,140</td>
<td>25,416,811</td>
</tr>
<tr>
<td><strong>Closing amounts due to donors and liabilities</strong></td>
<td><strong>431,987,744</strong></td>
<td><strong>420,631,740</strong></td>
</tr>
</tbody>
</table>

11. Assets held on behalf of, and amounts due to, UNEP RRC.AP

The revenues generated and expenditure made by UNEP RRC.AP is as follows:

<table>
<thead>
<tr>
<th></th>
<th>2005 (Restated)</th>
<th>2004 (Restated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funds received from UNEP RRC.AP</td>
<td>166,083,966</td>
<td>110,564,580</td>
</tr>
<tr>
<td>Total funds applied</td>
<td>132,222,212</td>
<td>115,213,187</td>
</tr>
<tr>
<td><strong>Surplus/(deficit) for the year</strong></td>
<td><strong>33,861,754</strong></td>
<td><strong>(4,648,607)</strong></td>
</tr>
</tbody>
</table>

Amount held on behalf of UNEP RRC.AP comprise:

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>223,360,452</td>
<td>104,604,509</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>480,880</td>
<td>-</td>
</tr>
<tr>
<td>Fixed assets</td>
<td>1,896,519</td>
<td>2,247,489</td>
</tr>
<tr>
<td><strong>Total amounts held on behalf of UNEP RRC.AP</strong></td>
<td><strong>225,737,851</strong></td>
<td><strong>106,851,998</strong></td>
</tr>
<tr>
<td>Opening amounts due to UNEP RRC.AP</td>
<td>100,192,598</td>
<td>104,642,133</td>
</tr>
<tr>
<td>Surplus/(deficit) for the year</td>
<td>33,861,754</td>
<td>(4,648,607)</td>
</tr>
<tr>
<td>Transfers from other funds</td>
<td>9,575</td>
<td>199,072</td>
</tr>
<tr>
<td>Transfers to other funds</td>
<td>(7,389,014)</td>
<td>(6,092,325)</td>
</tr>
<tr>
<td>Closing amounts due to UNEP RRC.AP</td>
<td>134,063,927</td>
<td>100,192,598</td>
</tr>
<tr>
<td>Liabilities</td>
<td>91,673,924</td>
<td>6,659,400</td>
</tr>
<tr>
<td><strong>Closing amounts due to UNEP RRC.AP and liabilities</strong></td>
<td><strong>225,737,851</strong></td>
<td><strong>106,851,998</strong></td>
</tr>
</tbody>
</table>

12. Salaries and benefit

<table>
<thead>
<tr>
<th></th>
<th>2005 (Restated)</th>
<th>2004 (Restated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wages and salaries</td>
<td>516,768,536</td>
<td>527,241,615</td>
</tr>
<tr>
<td>Social security costs</td>
<td>5,894,540</td>
<td>8,748,446</td>
</tr>
<tr>
<td>Pension costs</td>
<td>35,186,793</td>
<td>38,857,217</td>
</tr>
<tr>
<td>Income tax</td>
<td>20,280,048</td>
<td>45,847,836</td>
</tr>
<tr>
<td>Other costs</td>
<td>67,988,779</td>
<td>58,401,120</td>
</tr>
<tr>
<td><strong>Salaries and benefit</strong></td>
<td><strong>646,118,696</strong></td>
<td><strong>679,096,234</strong></td>
</tr>
</tbody>
</table>
13. **AIT Center in Vietnam (AITCV)**  
The Institute has a branch operation in Hanoi, Vietnam. The purpose of the Vietnamese operation is to:  
- Educate and train various forms of scientists, technocrats and business managers; and  
- Organization research and development activities as well as the transfer of technologies as required by the economic development of the country.  
The results of the operation are summarized below and have been included in the results of the Restricted Fund – General (Fund 21)  

<table>
<thead>
<tr>
<th></th>
<th>2005 (in Baht)</th>
<th>2004 Restated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>72,103,996</td>
<td>57,960,228</td>
</tr>
<tr>
<td>Expenditures</td>
<td>54,836,585</td>
<td>35,133,493</td>
</tr>
<tr>
<td>Excess of revenue over expenditure</td>
<td>17,267,411</td>
<td>22,826,735</td>
</tr>
</tbody>
</table>

Financial statements for the years ended 31 December 2005 and 2004 have been produced and approved by the management of the branch.  

14. **AIT Insured saving fund**  
Until 31 January 2004 the Institute and its staff jointly operated an Insured Savings Fund post-retirement defined contribution scheme. The Institute contributed at a fixed rate of 10% of gross salary and the employee at 5% of gross salary. The Institute retained, and met the cost of, an independent fund manager to manage the fund. Staff were only able to obtain a refund of contributions from the Fund in accordance with the scheme rules.  
With effect from 1 February 2004, a Provident Fund has replaced the Insured Saving Fund. The Institute contributes to the fund as the rate of 10% of salary earned, and the employees are allowed to contribute 3% to 10% of gross salary. The fund is managed by TISCO Assets Management Co., Ltd. The assets of the Insured Saving Fund were substantially transferred to the new Provident Fund.  

15. **Commitments and contingent liabilities**  
As at 31 December 2005 and 2004, the Institute has commitments and contingent liabilities as follows:  
- Bank guarantees amounting to approximately Baht 3.60 million (2004: Baht 21.82 million) were issued by a bank on behalf of the Institute in respect of certain performance bonds as required in the normal course of operations of the Institute.  
- A claim has been made by a former member of staff in respect of a breach of contract of employment. The claim for Baht 5.75 million is still pending in the Court.  

16. **Land lease**  
As disclosed in Note 8 the Institute entered into a new Land Lease Agreement (Lease) in respect of the site that the Institute occupies. The thirty-year Lease was signed on 10 June 2005. The Lease was obtained at a significant discount to the market rental rates. However, the consideration for this discount is that should the lease not be renewed and the land revert to Thammasat University (University), or it successor as the landlord, all buildings and infrastructure on the Institute site will become the property of the University or its successor as landlord.  
Furthermore, the Lease is contingent on a Memorandum of Understanding (MOU) between the University and the Institute. The MOU provides that the Institute will make available and fund a total of sixty scholarships over the thirty-year life of the Lease. Scholarships made in accordance with the MOU will cover tuition fees for qualified lecturers from the University, selected by the University, to pursue a Doctoral degree at the Institute. At present, the Institute can only estimate that the cost of this commitment, at today's values, will be approximately Baht 56.2 million.  

17. **Disclosure of financial instruments**  
The Institute does not speculate or engage in the trading of any derivative financial instruments.  

**Accounting policies**  
Details of significant accounting policies and methods adopted, including the criteria for recognition, the basis of measurement and the basis on which revenues and expenses are recognized, in respect of each class of financial assets and financial liabilities are disclosed in Note 4 to the financial statements.  

**Credit risk**  
Credit risk is the risk arising from failure of customer to meet their contractual obligations, which may eventually cause financial losses.  
The Institute is exposed to credit risk for the supply of educational services to enrolled primarily self-funding students. The Institute does not perform a credit evaluation on enrolling or enrolled students, nor does it seek any collateral in respect of fees for future years from enrolled students. The Institute does not operate a global credit risk management policy. Rather, individual perceived credit risks are identified and policies put in place to manage those risks.  

**Interest rate risk**  
Interest rate risk is the uncertainty in value of assets, financial debts or net interest income as a result of the fluctuations of the market interest rate.  
The deposit rates of all financial assets are based on market rates. The Institute does not have an interest rate risk management policy.  

**Foreign currency risk**  
Currency risk occurs when the value of financial instruments changes in accordance with the fluctuations of the exchange rate, which may affect gain/loss on foreign exchange currency of the present and future years.  
The Institute insures foreign currency risk when receives payment for tuition and fees and makes payment of purchases of equipment in currencies other than Thai Baht. The Institute does not have a foreign currency risk management policy.  

**Estimated fair value of financial instruments**  
Fair values have been estimated by the Institute using available market information and appropriate valuation methodologies. The methods and assumptions in estimating fair value of financial instruments are as follows:  
The fair value of cash on hand and cash at banks, accounts receivable and accounts payable are their carrying value presented in balance sheet.  

18. **Reclassification of accounts**  
Certain accounts in the 2004 financial statements have been reclassified to conform with the presentation in the 2005 financial statements.
### ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE</td>
<td>ASEAN Centre for Energy, Indonesia</td>
</tr>
<tr>
<td>ADBI</td>
<td>Asian Development Bank Institute</td>
</tr>
<tr>
<td>AORD</td>
<td>Asian Office of Aerospace Research and Development</td>
</tr>
<tr>
<td>AOTS</td>
<td>The Association for Overseas Technical Scholarship</td>
</tr>
<tr>
<td>APAARI</td>
<td>Asia Pacific Association of Agricultural Research Institutions</td>
</tr>
<tr>
<td>BRAC</td>
<td>Bangladesh Rural Advancement Committee</td>
</tr>
<tr>
<td>CMD</td>
<td>Clean Development Mechanism</td>
</tr>
<tr>
<td>CIRAD</td>
<td>Center de Cooperation Internationale en Recherche Agronomique pour le Development, France</td>
</tr>
<tr>
<td>CRSF</td>
<td>Collaborative Research Support Program</td>
</tr>
<tr>
<td>DCC</td>
<td>Dhaka City Corporation, Bangladesh</td>
</tr>
<tr>
<td>DFG, Germany</td>
<td>Deutsche Forschungsgemeinschaft</td>
</tr>
<tr>
<td>DFID</td>
<td>Department for International Development, U.K.</td>
</tr>
<tr>
<td>DTEC</td>
<td>Department of Technical and Economic Cooperation, Thailand</td>
</tr>
<tr>
<td>EBARA</td>
<td>Ebara Corporation, Japan</td>
</tr>
<tr>
<td>ESCP-EAP</td>
<td>ESCP-EAP European School of Management, France</td>
</tr>
<tr>
<td>ESI Fund</td>
<td>Electric Supply Industry Fund</td>
</tr>
<tr>
<td>GAIA</td>
<td>Global Action in the Interest of Animals</td>
</tr>
<tr>
<td>GEA</td>
<td>Global Environmental Action</td>
</tr>
<tr>
<td>GTZ</td>
<td>German Agency for Technical Cooperation</td>
</tr>
<tr>
<td>HRM</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>HRID</td>
<td>Human Resource and Institutional Development, the Netherlands</td>
</tr>
<tr>
<td>HUT</td>
<td>Helsinki University of Technology, Finland</td>
</tr>
<tr>
<td>ICH</td>
<td>International Centre for Hydropower, Norway</td>
</tr>
<tr>
<td>IFAD</td>
<td>International Fund for Agricultural Development</td>
</tr>
<tr>
<td>INPG</td>
<td>Institut National Polytechnique de Grenoble</td>
</tr>
<tr>
<td>INPT</td>
<td>Institut National Polytechnique de Toulouse</td>
</tr>
<tr>
<td>INRIA</td>
<td>The French National Institute for Research in Computer Science and Control</td>
</tr>
<tr>
<td>INSA</td>
<td>Institut National des Sciences Appliquees</td>
</tr>
<tr>
<td>INT</td>
<td>Institut National des Telecommunications</td>
</tr>
<tr>
<td>ITED</td>
<td>IT Education, JICA</td>
</tr>
<tr>
<td>JAXA</td>
<td>Japan Aerospace Exploration Agency, Japan</td>
</tr>
<tr>
<td>JICA</td>
<td>Japan International Cooperation Agency</td>
</tr>
<tr>
<td>KOJADI</td>
<td>Koperasi Jayadiri Malaysia Berhad</td>
</tr>
<tr>
<td>LGED</td>
<td>Local Government Engineering Department, Bangladesh</td>
</tr>
<tr>
<td>MDI, India</td>
<td>Management Development Institute</td>
</tr>
<tr>
<td>MOFA</td>
<td>Ministry of Foreign Affairs, France</td>
</tr>
<tr>
<td>NEPO</td>
<td>National Energy Policy Office, Thailand</td>
</tr>
<tr>
<td>NEERP, Sri Lanka</td>
<td>North East Emergency Reconstruction Program</td>
</tr>
<tr>
<td>OSIDEV</td>
<td>Open Society Institute Development Foundation, U.S.A.</td>
</tr>
<tr>
<td>PDA</td>
<td>Pond Dynamics/Aquaculture</td>
</tr>
<tr>
<td>PKSF</td>
<td>Palli Karma-Sahayak Foundation, Bangladesh</td>
</tr>
<tr>
<td>Riso</td>
<td>Riso National Laboratory, Denmark</td>
</tr>
<tr>
<td>SDC</td>
<td>Swiss Development Coordination</td>
</tr>
<tr>
<td>SEMP</td>
<td>Secondary Education Modernization Project, Sri Lanka</td>
</tr>
<tr>
<td>SESIP</td>
<td>Secondary Education Sector Improvement Project, Bangladesh</td>
</tr>
<tr>
<td>Sida</td>
<td>Swedish International Development Cooperation Agency</td>
</tr>
<tr>
<td>SPCDP</td>
<td>Second Perennial Crops Development Project, Sri Lanka</td>
</tr>
<tr>
<td>UN-ESCAP</td>
<td>United Nations Economic and Social Commission for Asia and the Pacific</td>
</tr>
<tr>
<td>UNDP</td>
<td>United Nations Development Program</td>
</tr>
<tr>
<td>UNEP</td>
<td>United Nations Environment Program</td>
</tr>
<tr>
<td>UNFPA</td>
<td>United Nations Population Fund</td>
</tr>
<tr>
<td>UNESCO</td>
<td>United Nations Educational, Scientific and Cultural Organization</td>
</tr>
<tr>
<td>USAID</td>
<td>US Agency for International Development</td>
</tr>
</tbody>
</table>