

AIT

ASIAN INSTITUTE OF TECHNOLOGY

ANNUAL REPORT 2005

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Prof. Mario T. Tabucanon (acting president until 30 June 2005)

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Prof. Sudip Rakshit, Research
Prof. Vilas Wuwongse, External Relations
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Prof. Sivanappan Kumar	School of Environment, Resources & Development
Prof. Chongrak Polprasert	School of Environment, Resources & Development
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Dr. Anila Sadananda (until October 2005)

Head, Student Affairs

Ms. Ann Lopez - Fontanilla (as of November 2005)

Associate Registrar for Community Affairs

Dr. Hoang Le Tien (until October 2005)

Head, Research

Ms. Izel Ann Mojado-Dante (as of November 2005)

Head, ERCO

Mr. Sanjeev Jayasinghe (as of November 2005)

Institute Secretary & Coordinator, Executive Committee

Mr. Karma Rana

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Dr. Hoang Le Tien (as of November 2005)

Head, Finance

Mr. Ng Eng Wan (as of November 2005)

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Message from the Chairman of the Board of Trustees



The year 2005 has been one of transition with the appointment by the Board of Trustees of the new president, Prof. Said Irandoust, 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 Irandoust 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

Message from the President



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

2005 sees welcome of new president



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 aware-

ness, 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



At the colloquium (from left): Prof. Said Irandoust, incoming AIT president; outgoing Acting President Mario Tabucanon; H.E. Swedish Ambassador Jan Axel Nordlander; and H.E. French Ambassador Mr. Laurent Aublin, incoming chairman of the Executive Committee.



Prof. Irandoust (left), AIT president, shares his view at the academic colloquium. On his left is Prof. Mario T. Tabucanon and H.E. Mr. Vivek Katju, ambassador of India to Thailand.



Prof. Ashoka Chandra (left) chairs the panel discussion.

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 develop-



Members of the panel (from left): Prof. Rof Dubs, Prof. Anders Flodstrom, Prof. Ahsoka Chandra, Prof. Stephen Hill, H.E. Ambassador Peter Marres, Prof. Stephen Ogunlana and Dr. Subin Pinkayan.

ment 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.



2005 in Review

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 experts map, manage and assess the disaster caused by the 2004 tsunami.

- Dr. Ulrich Glawe of the then-School of Civil Engineering, joined experts from Tribhuvan University, Nepal, and Aachen University, Germany, on visits to affected areas in Thailand and Sri Lanka. During the visits to both countries, the studies included impact assessment with reference to bay/beach topography, role of shore protection structures, role of land topography/morphology, role of structures and vegetation. Issues of



Dr. Ulrich Glawe (seated right) of the then-School of Civil Engineering discusses an issue raised during the tsunami seminar.



AIT's session on the "The Tsunami Disaster and its Prevention" held in March 2005.

- erosion/scouring were also documented. First-hand data was collected comprehensively in both countries.
- 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



World renowned expert on tsunamis Prof. Nobuo Shuto lectures "Tsunamis: Their Coastal Effects and Defense Works."



H.E. Prof Xu Guanhua (inset, left) receives an AIT honorary pin from Prof. Irandoust and tours the RSGIS laboratory (above) and the Geoinformatics Center during his visit on 29 July.

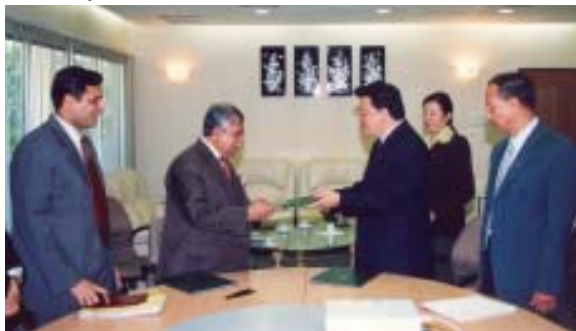


Honorary doctorate conferred

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.

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.



Pakistan's Higher Education Commission signs an accord to send 30 Pakistani professionals to study at AIT.

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



The AIT, TISTR accord is expected to spur related activities for a graduate development program.



Signed at the AITCV, Hanoi, the MoA states that MOET will provide 25 scholarships for Vietnamese students.



Dr. Suvit Yodmani (left), ADPC president, signs the MoU with Prof. M. Tabucanon, acting president.



H.E. Dr. Wissanu Krea-Ngam (above right), deputy prime minister and chairman of Energy Conservation Promotion Fund launches the Thailand MOE project in honor of HM Queen Sirikit's 70th birthday.

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



AIT-Thammasat-NSTDA accord: the first-ever academic cooperation among the three Pathumthani institution neighbors.



AIT-LCWU accord: HRD capacity building for LCWU faculty.

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.



AIT - UNEP MoU ceremony.



AIT - Shivaji University MoU ceremony.



November sees royal visits



HRH 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 Chulachomkiao 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



H.E. Mr. Aziz



Prof. Richardson



Prof. Lehn



Prof. Glashow



Prof. Giacconi



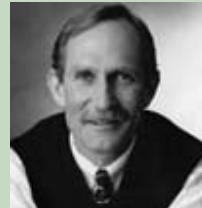
Bishop Belo



H.E. Mr. Horta



Prof. Molina



Prof. Agere



Prof. Friedman



Prof. Blumberg



Dr. Subin



Prof. Undan



Mr. Chen



Khunying Porntip

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 12 January, 2002 Nobel Physics laureate Prof. Riccardo Giacconi, a research professor at John Hopkins University, USA, and the president of Associated Universities Inc., Washington, D.C., lectured on the topic, "Interaction between basic and applied research."
- On 26 January, 1996 Nobel Peace Prize laureate Bishop Carlos Filipe Ximenes

Belo, a patron of the International Peace Foundation, lectured on "Education for Peace."

- On 27 January, Nobel laureate H.E. Mr. Jose Ramos-Horta, Timor-Leste's senior minister and minister for Foreign Affairs and Cooperation, 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.



Prof. Tabucanon (left) and Prof. Richardson.



An AIT community member welcomes Bishop Belo (right).



Prof. Friedman (left) is joined by Mr. U. Morawetz and Prof. Tabucanon.

- 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 of 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 dissemi-

nation 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).



Prof. Giacconi (left) is welcomed by Prof. Polprasert.



Prof. Tabucanon hands a token to Prof. Undan while Mrs. Undan looks on.



Prof. Irandoust (middle) is flanked by Mr. and Mrs. Chen.

Academic Developments

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.



Prof. Ogunlana



Prof. Tingsanchali

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.



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.

- **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.

- **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.



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 Geoenvironmental Engineering
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

Students

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.

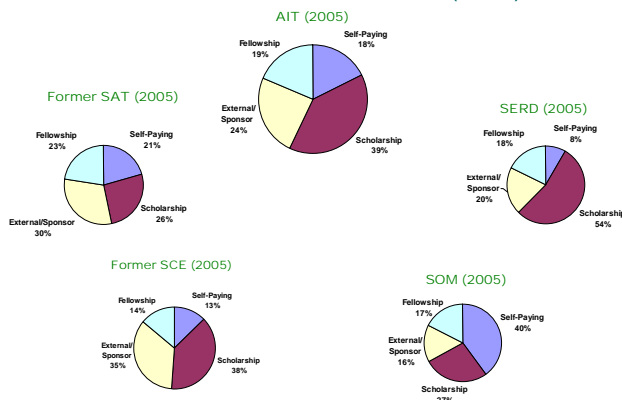
The admissions data for August 2005 versus August 2004 is also shown in the table below. A total of 3,395 applications were received, which is almost at the same level as that of August 2004. The percentage of acceptance reduced slightly from 30 percent in August 2004 to 27 percent in August 2005.

	Applications	Offers	Accepted	Percent Acceptance	Fee-paying Enrolled	Difference (%)	Discount Rate
Jan-04	773	656	163	25%	95		7.33%
Jan-05	550	395	190	48%	99	4%	9.47%
Aug-04	3,391	2,887	863	30%	653		17.21%
Aug-05	3,395	2,946	798	27%	672	3%	18.75%

SAT	Applications	Offers	Accepted	Percent Acceptance	Fee-paying Enrolled	Difference (%)	Discount Rate
Jan-04	55	46	17	37%	15		0.00%
Jan-05	105	79	33	42%	26	73%	20.67%
Aug-04	831	733	208	28%	178		17.13%
Aug-05	844	745	197	26%	190	7%	23.67%

SCE	Applications	Offers	Accepted	Percent Acceptance	Fee-paying Enrolled	Difference (%)	Discount Rate
Jan-04	15	11	10	91%	8		0.00%
Jan-05	51	35	14	40%	6	-25%	12.50%
Aug-04	483	436	92	21%	92		22.63%
Aug-05	406	374	94	25%	93	1%	13.51%

Sources of Tuition Revenue (2005)



SOM	Applications	Offers	Accepted	Percent Acceptance	Fee-paying Enrolled	Difference (%)	Discount Rate
Jan-04	110	75	67	89%	41		0.81%
Jan-05	69	60	51	85%	23	-44%	0.00%
Aug-04	702	537	279	52%	116		14.55%
Aug-05	578	441	220	50%	113	-3%	17.43%

SERD	Applications	Offers	Accepted	Percent Acceptance	Fee-paying Enrolled	Difference (%)	Discount Rate
Jan-04	593	524	69	13%	31		21.39%
Jan-05	325	221	92	42%	44	42%	7.38%
Aug-04	1,375	1,181	284	24%	267		16.54%
Aug-05	1,567	1,386	287	21%	276	3%	17.68%

2005 TOTAL ENROLLMENT BY DEGREE PROGRAM By School and Degree Program		
SAT	Jan 2005 Sem	Aug 2005 Sem
By Degree Program:		
* Doctoral	79	94
* Masters	366	362
* Diploma	1	2
Total (Degree program)	446	458
* Other Programs:		
- CAS	13	16
- Bridging		
- Certificate	22	3
- Special/Exchange	6	
- Research Fellows		
- Post Doctoral	2	
Total (Other programs)	43	19
	489	477
SCE		
	Jan 2005 Sem	Aug 2005 Sem
By Degree Program:		
* Doctoral	69	82
* Masters	197	148
* Diploma		
Total (Degree program)	266	230
* Other Programs:		
- CAS	3	7
- Bridging	4	
- Certificate		3
- Special/Exchange	9	
- Research Fellows		
- Post Doctoral		
Total (Other programs)	16	10
	282	240
SERD		
	Jan 2005 Sem	Aug 2005 Sem
By Degree Program:		
* Doctoral	198	227
* Masters	449	489
* Diploma	2	
Total (Degree program)	649	716
* Other Programs:		
- CAS	14	21
- Bridging	31	
- Certificate	5	10
- Special/Exchange	32	9
- Research Fellows	6	1
- Post Doctoral	6	2
Total (Other programs)	94	43
	743	759
SOM		
	Jan 2005 Sem	Aug 2005 Sem
By Degree Program:		
* Doctoral	64	63
* Masters	386	439
* Diploma		
Total (Degree program)	450	502
* Other Programs:		
- CAS	3	7
- Bridging	2	
- Certificate		2
- Special/Exchange	27	28
- Research Fellows		
- Post Doctoral	1	
Total (Other programs)	33	37
	483	539
Over-all Total	1,997	2,015

2005 TOTAL STUDENT ENROLMENT BY ORIGIN		
	Jan 2005	Aug 2005
* Southeast Asia and the Pacific	1,378	1,455
<i>Cambodia</i>	67	58
<i>Indonesia</i>	44	46
<i>Laos</i>	64	57
<i>Malaysia</i>	7	7
<i>Maldives</i>		1
<i>Myanmar</i>	83	84
<i>Papua New Guinea</i>		1
<i>Philippines</i>	26	19
<i>Singapore</i>	1	1
<i>Thailand</i>	649	698
<i>Vietnam</i>	437	483
* South Asia and West Asia	404	379
<i>Bangladesh</i>	103	84
<i>Bhutan</i>	19	24
<i>India</i>	120	103
<i>Iran</i>	3	
<i>Israel</i>		
<i>Nepal</i>	81	93
<i>Pakistan</i>	39	36
<i>Sri Lanka</i>	39	39
* East Asia and Central Asia	90	95
<i>Azerbaijan</i>		
<i>Hong Kong</i>		1
<i>Japan</i>	11	7
<i>Korea</i>	10	9
<i>Kyrgyzstan</i>	1	2
<i>Mongolia</i>	3	6
<i>PR China</i>	60	64
<i>Russia</i>	1	
<i>Taiwan</i>	2	4
<i>Uzbekistan</i>	2	2
* America and Canada	34	7
<i>Canada</i>	8	3
<i>Mexico</i>		
<i>USA</i>	26	4
* Europe	78	39
<i>Austria</i>	1	1
<i>Belgium</i>		1
<i>Bulgaria</i>	1	1
<i>Denmark</i>	6	4
<i>Finland</i>	2	
<i>France</i>	50	22
<i>Germany</i>	7	4
<i>Iceland</i>		
<i>Italy</i>		
<i>Latvia</i>		
<i>Luxemburg</i>		
<i>Monaco</i>		
<i>Netherlands</i>	4	1
<i>Norway</i>	2	1
<i>Poland</i>		1
<i>Portugal</i>		
<i>Spain</i>		
<i>Sweden</i>	2	2
<i>Switzerland</i>	2	1
<i>United Kingdom</i>	1	
* Africa	11	11
<i>Cameroon</i>	1	1
<i>Egypt</i>	1	1
<i>Ethiopia</i>	6	5
<i>Malawi</i>	1	1
<i>Morocco</i>		1
<i>Nigeria</i>	1	1
<i>Rwanda</i>	1	1
* Tibetan Living in India	2	1
TOTAL	1,997	1,987

Alumni

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 (AITAA) Mother Chapter and its national chapters and alumni at large to

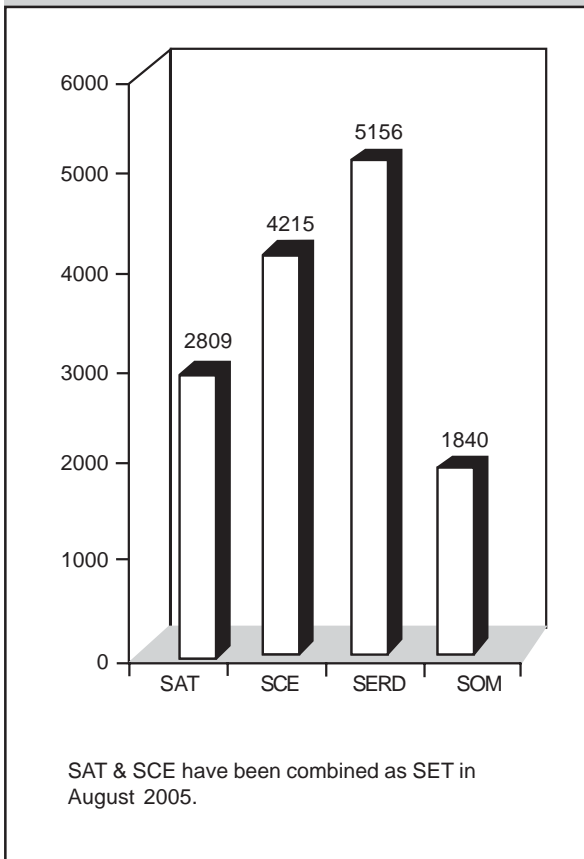
jointly promote AIT's academic programs as well as launch new initiatives that will contribute to the long-term sustainability of the institute.

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.

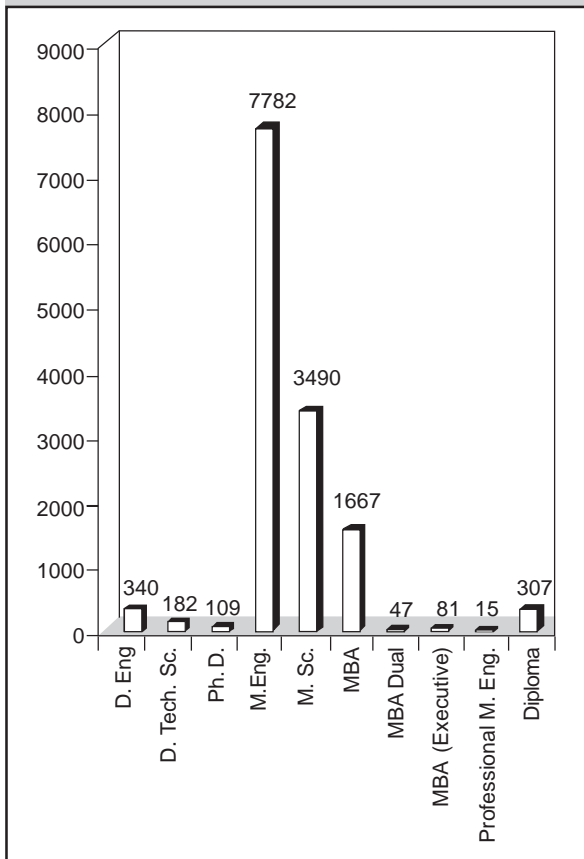
Alumni Distribution

by Nationality			
Southeast Asia and Pacific	East Asia	America and Europe	Africa and Others
Brunei Darussalam 10	China 617	Argentina 1	Egypt 1
Cambodia 259	Hong Kong 88	Austria 1	Ethiopia 12
Indonesia 573	Japan 82	Azerbaijan 5	Ghana 2
Laos 200	Korea 149	Belgium 11	Kenya 4
Malaysia 298	Macao 7	Bolivia 1	Malawi 5
Myanmar 393	Mongolia 41	Bulgaria 1	Morocco 1
Philippines 858	Taiwan 842	Canada 10	Mozambique 1
Singapore 29	<i>Sub-total</i> 1,826	Denmark 9	Nigeria 3
Thailand 3670	Central Asia	Finland 18	Tanzania 8
Vietnam 1638	Iran 22	France 110	Zambia 1
<i>Sub-total</i> 7,928	Kazakhstan 14	Germany 22	<i>Sub-total</i> 38
South Asia and West Asia	Kyrgyzstan 10	Honduras 1	
Afghanistan 19	Tajikistan 1	Ireland 3	
Bangladesh 824	Uzbekistan 3	Italy 4	
Bhutan 49	<i>Sub-total</i> 50	Luxemburg 1	
India 800	Oceania	Netherlands 7	
Maldives 5	Australia 2	Norway 2	
Nepal 794	Fiji 1	Peru 1	
Pakistan 665	Kiribati 1	Portugal 2	
Sri Lanka 749	Papua New Guinea 9	Russia 1	
Stateless 6	Solomon Island 1	Spain 9	
<i>Sub-total</i> 3,911	Tonga 1	Sweden 2	
	Tuvalu 1	Switzerland 2	
	<i>Sub-total</i> 16	Turkey 6	
		UK 4	
		USA 16	
		Venezuela 1	
		<i>Sub-total</i> 251	Total 14,020

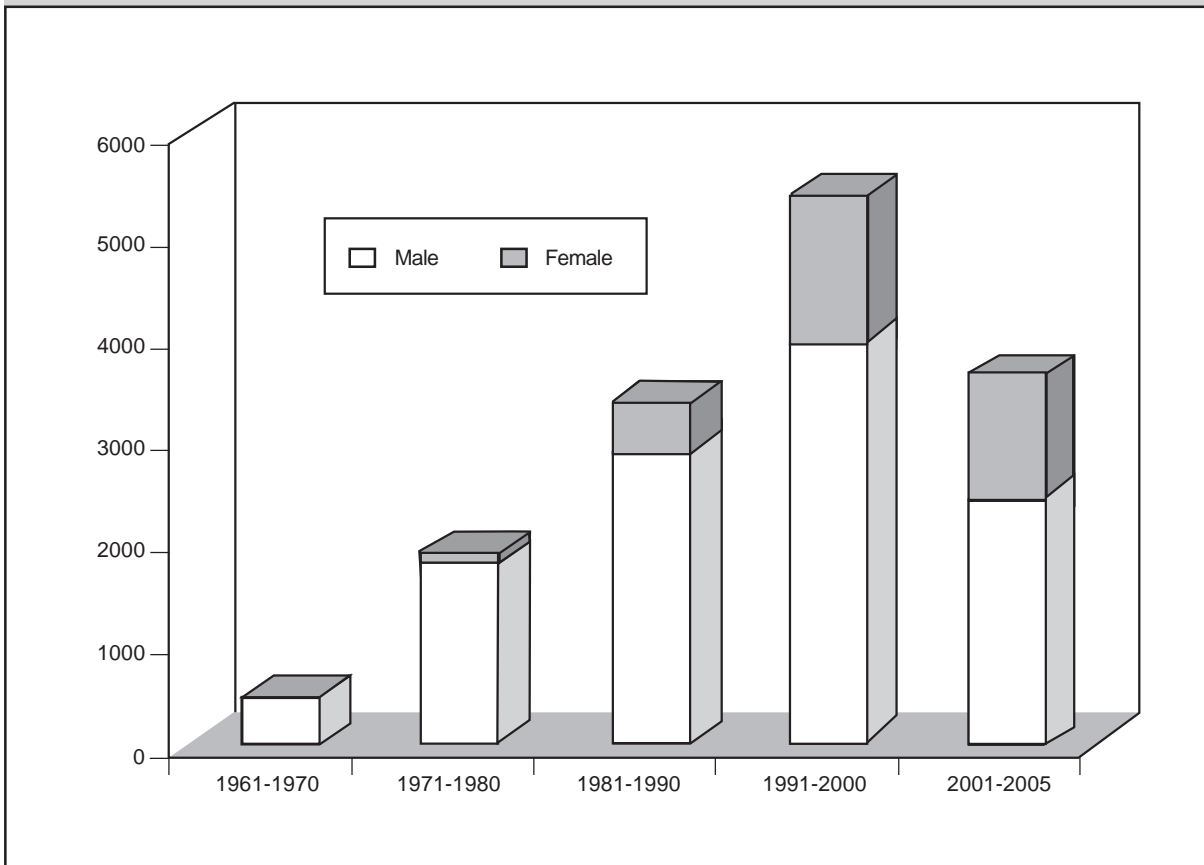
Alumni Distribution by School



Alumni Distribution by Degree



Alumni Distribution by Gender (1961-April 2005)



Faculty

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

	2005 Average
Long-term Faculty	111
* Direct-hire	96
* Seconded	15
Short-term Faculty	33
* Visiting Faculty	11
* Adjunct Faculty	22
TOTAL	144

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, 20

2005 Report on Academic Activities

Activities	SET	SERD	SOM	2005 Total
A. PUBLICATIONS				
Journal Papers	125	117	20	262
Conference papers / Proceedings	193	128	1	322
Books / Chapters in Books	22	12	0	34
Others*	42	30	5	77
Total	382	287	26	695
B. SPONSORED AND GRANT RESEARCH				
Completed Projects	63	65	2	130
Ongoing Projects	75	42	0	117
Total	138	107	2	247
C. CONTINUING EDUCATION				
Conferences	69	0	0	0
Workshops	32	0	2	0
Seminars	40	0	12	0
Short Courses	34	0	2	0
Special Lectures	59	0	0	0
Others#	33	0	5	0
Total	267	00	21	000

* 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

	2005 Average
* SAT	16.8
* SCE	13.2
* SERD	16.3
* SOM	31.6
AVERAGE	18.1

Promotions / appointment to full professor



Prof. Haddawy



Prof. Islam



Prof. Pandey

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 Develop-

ment, 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.



Prof. Haddawy



Prof. Rakshit



Prof. Vilas



Dr. Ni Ni

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.

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



Prof. Worsak



Prof. Kumar



Prof. Pandey

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.



Dr. Shaw

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

Research

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. Anongnart Srivihok, 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

Seminar: International Council for Research and Innovation in Building and Construction (CIB) Symposium on Globalization and Construction 2004

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: 1,297,296 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; Collaborators: Dr. William Barry, Dr. Pannapa Herabat, AIT; Walailak University, Thailand
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 Phienweej
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;

Collaborators: Prof. Dennes Bergado, Prof. C. Visvanathan, AIT; Khulna University of Engineering & Technology, Bangladesh

Sponsor: European Commission
Duration: 1 April 2004 – 30 October 2005

Total Amount: 1,297,296 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 Co. Ltd., Thailand

Sponsor: Department of Highways, Ministry of Communication, Thailand
Duration: 26 October 1999 – 30 June 2005

Total Amount: 2,245,200 THB

Klong Prapa Canal Covering Project

Investigator: Prof. Worsak Kanok-Nukulchai, Prof. Tawatchai Tingsanchali, Prof. Yordphol Tanaboriboon, Dr. Noppadol Phien-wej and Dr. Anwar Naveed

Sponsor: Department of Highways, Thailand
Duration: 26 October 1999 – 30 June 2005

Total Amount: 11,329,387.85 THB

Geoenvironmental Engineering Curriculum Development for South and Southeast Asian Region

Investigator: Dr. Ulrich Glawe
Sponsor: European Commission
Duration: 24 September 2002 - 23 September 2005

Total Amount: 12,607,033 THB

The Asian Horizon 21 – A Trilateral Collaboration between AIT-Khon Kaen University and Chulalongkorn University on Development of Geosystem Exploration Program for Thailand

Investigator: Dr. Pham Huy Giao;
Collaborator: Department of Mineral Resources, Thailand
Sponsor: Royal Thai Government
Duration: 20 March 2002 – 31 March 2005

Total Amount: 1,000,000 THB

Thermal Stabilization of Soft Bangkok Clay

Investigator: Prof. Dennes Bergado;
Collaborator: Dr. Suttisak Soralump, Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 April 2003 – 30 June 2005

Total Amount: 918,500 THB

Mechatronics and Microelectronics

Development of Microelectromechanical Systems (MEMS) Actuator (2004-2005)

Investigator: Dr. Nitin Afzulpurkar
Sponsor: Seagate Technology
Duration: July 2004 – December 2005
Total Amount: 142,000 THB

Machine Vision Training Module (September05-December05)

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

ZnS Nanophosphors for Field Effect Devices and DNA Labeling Applications

Investigator: Dr. Joydeep Dutta
Sponsor: National Metal and Materials Technology Center (MTEC)/National Science and Technology Development Agency (NSTDA)
Duration: 2003 - 2005
Total Amount: 1,800,000 THB

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. Xiaoyong Chen

Sponsor: Royal Thai Government
Duration: April 2002 – July 2005
Total Amount: 1,000,000 THB

Application of Geographic Information Systems (GIS) in Poverty Mapping

Investigator: Dr. Manzul Hazarika
Sponsor: Central Bureau of Statistics, Nepal
Duration: 3-23 February 2005
Total Amount: 478,625 THB

Basic Training in Remote Sensing and GIS

Investigator: Dr. Manzul Hazarika
Sponsor: United Nations Environment Programme Regional Resource Centre for Asia and the Pacific (Training for Afghanistan)
Duration: 3-31 May 2005
Total Amount: 195,000 THB

Digital Asia Network (DAN)

Investigator: Dr. Lal Samarakoon
Sponsor: 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

Duration: 22 June 1999 – 31 March 2005

Total Amount: 2,967,329 THB

Space Application Study

Investigator: Prof. Michiro Kusanagi

Sponsor: Japan Science and Technology Corporation

Duration: 1 April 1999 – 31 March 2005

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 Applications of GIS for Biodiversity Mapping

Investigator: Dr. Manzul Hazarika

Sponsor: Biodiversity Sector Program for. Siwaliks and Terai (BISEP-ST), Nepal

Duration: 20 June – 1 July 2005

Total Amount: 429,000 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 Sleeper – 2005)

Investigator: Dr. Pichai Nimityongskul

Sponsor: Italian-Thai Development

Public Company Limited (ITD)

Duration: 1 January 2005-31

December 2005

Total Amount: 800,000 THB

Easec-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 Nimityongskul

Sponsor: National Housing Authority, Thailand

Duration: 1 December 2002 – 31

December 2005

Total Amount: 5,303,315 THB

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 & Architect)

Investigator: Prof. Tawatchai

Tingsanchali; Collaborators: Prof.

Worsak Kanok-Nukulchai, Prof. Ajit

Annachhatre, AIT; YP Consultants

Company Limited, Thailand; Dr.

Apichart Wongkaew, Dr. Yingplew

Suphakitwong

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 September 2004 – 30 November 2005

Total Amount: 360,000 THB

Transportation Engineering

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

Water Engineering and Management

Hydro-political Vulnerability and Resilience in South and Southeast Asia

Investigators: Prof. Ashim Das Gupta

and Dr. Mukand Singh Babel

Sponsor: Oregon State University, USA

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: Dr. Mukand Singh Babel

and Prof. Ashim Das Gupta

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

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 Tingsanchali; Collaborators: Prof. Worsak Kanok-Nukulchai, Prof. Ajit Annachatre, 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, Thailand; 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. Yoshitaka Kato; Collaborator: Dr. Dushmanta 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. Dushmanta Dutta

Sponsor: Engineering Consultants NEWJEC Inc. Osaka, Japan
Duration: 1 November 2003 – 30 September 2005
Total Amount: 720,000 THB

Workshop on Governance on 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)
Duration: December 2005 – June 2006
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. Bohez
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

and Dr. Noppadol Phien-wej
Sponsors: Royal Thai Government
Duration: January 2005 – March 2006
Budget: 600,000 THB

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 Suvannabhumi 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

Development of an Automated Visual Inspection System (2005-2006)

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

Development of Generic Smart Micro-Electro-Mechanical Systems (MEMS) Based Control Systems (2003-2006)

Investigator: Dr. Nitin Afzulpurkar
Sponsors: National Science and

Technology Development Agency (NSTDA)
Duration: February 2004 – December 2006
Total Amount: 3,880,800 THB

Nanocomposite Polymer-metal Plasmon Sensors

Investigator: Dr. Joydeep Dutta
Sponsor: Swedish International Development Cooperation Agency (Sida) Research Grant, Sweden
Duration: May 2005 – April 2008
Total Amount: 367,000 SEK

Nanotechnology Based Pressure Sensors for Tsunami Detection

Investigator: Dr. Joydeep Dutta
Sponsor: AIT-Royal Thai Government Joint Research Project
Duration: December 2005 – December 2006
Total Amount: 875,000 THB

Development of an Automatic Tide Sensing Unit for Tsunami Early Warning System Sponsored: Royal Thai Government

Investigator: Dr. Manukid Parnichkun
Sponsor: Royal Thai Government Joint Research Fund
Duration: December 2005 – December 2006
Total Amount: 1,000,000 THB

A Study of Development of an Intelligent Vehicle Project

Investigator: Dr. Manukid Parnichkun
Sponsor: National Electronics and Computer Technology Center (NECTEC)
Duration: March 2005 – December 2006
Total Amount: 1,000,000 THB

Development of a Medical Tele-Analyzer by Force-Displacement-Hybrid Tactile Sensor and Actuator for Abdominal Mass Analysis (Phase 2) Project

Investigator: Dr. Manukid Parnichkun
Sponsor: National Electronics and Computer Technology Center (NECTEC)
Duration: August 2004 – December 2008
Total Amount: 1,674,200 THB

Development of a Systematic-Error-Compensate CNC Controller Project

Investigator: Dr. Manukid Parnichkun
Sponsor: Mitutoyo Association for Science and Technology
Duration: 2001 – December 2007
Total Amount: 2,500,000 Yen

Conjugated Semiconductor Nanoparticles as Fluorophores for Rapid Detection of Bacteria's

Investigator: Dr. Joydeep Dutta
Sponsor: National Nanotechnology Center (NANOTEC)/National Science

and Technology Development Agency (NSTDA)
Duration: December 2005 – December 2006
Total Amount: 1,498,992 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
Duration: October 2004 – June 2006
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
Budget Joint Research Project FY 2004
Duration: October 2004 – June 2006
Total Amount: 975,000 THB

Digital Asia

Investigator: Dr. Lal Samarakoon
Sponsor: Keio University, Project FY 2005-2009
Duration: April 2005 – March 2010
Total Amount: 700,000 THB (annually)

Geographic Information Management (GIM)

Investigator : Dr. Honda Kiyoshi
Sponsor: International Water Management Institute
Duration: December 2002 – December 2005 (Extended to December 2006)
Total Amount: 1,200,000 THB

Human Network Project

Investigator: Dr. Lal Samarakoon
 Sponsor: Japan Aerospace Exploration Agency (JAXA) – Bangkok, Project FY 2005-2006
 Duration: January 2005 – June 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 Hazarika
 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 (KDML) 105-Geographic Information System

Investigator: Dr. Xiaoyong Chen; Co-investigator: Dr. Srisaang Kaojarearn
 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 2005
 Duration: October 2005 – October 2006
 Total Amount: 970,000 THB

Geographic Information System and Nutritional Status of Lamphoon Province People Thailand

Investigators: Prof. Michiro Kusanagi, Dr. Srisaang Kaojarearn
 Sponsor: Royal Thai Government
 Budget Joint Research Project FY 2004
 Duration: September 2004 – February 2006
 Total Amount: 600,000 THB

Asia e-learning Project Experiment 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. Worsak 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. Worsak 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. Worsak Kanok-Nukulchai,
 Sponsor: Royal Thai Government Joint Research Fund
 Duration: 30 September 2004 – December 2006
 Total Amount: 996,000 THB

Finite Element Modeling of Tsunami Propagation on the Coast of Thailand

Investigator: Prof. Worsak 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. Worsak Kanok-Nukulchai
 Sponsor: Participants/Donors/Subsidy
 Duration: 25 June 2005 – 31 December 2006
 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

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 (ETA)
 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)
 Duration: 13 November 2000 – 30 June 2006
 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

Hydraulic Model Study on Overflow Spillway for Nam Ngum 2 Hydroelectric: Spillway

Investigator: Dr. Sutat Weesakul
 Sponsor: Team Engineering Consulting and Management Co, Ltd.
 Duration: February – August 2006
 Total Amount: 6,300,000 THB

Modeling Tools for Environment and Resources Management (MTERM) Conference

Investigator: Dr. Mukand Singh Babel, Prof. Ashim Das Gupta
 Sponsor: MTERM Conference participants
 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. Amaratatne Yakupitiyage; Collaborators: 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. Amaratatne Yakupitiyage; Collaborator: 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. Amaratatne 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. Amaratatne 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. Subuntith 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: 48,380,738 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)
 January 2002-December 2005
 Total Amount: 9,490,434 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: 10,098,113 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: 9,422,065 THB

Strategies for Promotion of Energy Efficient and Cleaner Technologies in the Urban Transport System

Investigators: Prof. R.M. Shrestha, Prof. S.C. Bhattacharya, Dr. M.N. Islam and Dr. N.T. Kim Oanh
 Sponsor: Swedish International Development Cooperation Agency (Sida)
 Duration: January 2002 – December 2005
 Total Amount: 11,331,541 THB

Regional Programme III Coordination

Investigators: Prof. S. Kumar, Prof. S.C. Bhattacharya

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 GNEED Energy Access II Theme
Investigators: Prof. R.M. Shrestha and Dr. S. Kumar
Sponsor: Global Network of Energy for Sustainable Development (GNEED)/ 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/GNEED)
Investigators: Prof. Ram M. Shrestha and Prof. S. Kumar
Sponsor: Global Network on Energy for Sustainable Development (GNEED)
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)

Duration: November 2004 – July 2005
Total Amount: 1,000,025 THB

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 Kasekam Roongroueng Co., Ltd. (Cambodia)
Duration: 1 September 2004 – December 2005
Total Amount: 1,029,500 THB

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

Rural Electrification Decentralised 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 2005
Total Amount: 500,000 THB

Building Energy Management Project
Investigator: Prof. Surapong 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

Investigators: Prof. S. Kumar and Prof. Ram Shrestha, AIT
Sponsor: Institute for Global Environmental Strategies, Japan
Duration: 1 October 2004 – 31 March 2005
Total Amount: 243,227 THB

Application of FACTS Controllers in Thailand Power Systems
Investigator: Dr. N. Mithulananthan;
Collaborator: Dr. P. Soththipong, Chulalongkorn University, Thailand
Sponsor: Royal Thai Government
Duration: 1 May 2003 – 30 June 2005
Total Amount: 900,000 THB

Environmental Engineering and Management

Enhancement of Natural Attenuation of Soil and Groundwater Polluted by Trichloroethylene (TCE)
Investigator: Dr. Preeda Parkpian;
Collaborator: Dr. Patana Anurakpongson, Kasetsart University, Thailand
Sponsor: Royal Thai Government
Duration: 1 September 2004 – 31 December 2005
Total Amount: 1,000,000 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

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 Innovative Technology for High-Strength Low-Degradable Wastewater Treatment: Bipolar Electro-Chemical Process (BCEP), 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

Province, Thailand

Investigator: Dr. Oleg Shipin
 Sponsor: Royal Thai Government /
 Environmental Vision 21 Company,
 Ltd., Korea
 Duration: 1 April 2002 – 30 April 2005
 Total Amount: 1,998,511 THB

Development of Toxic Industrial Wastewater Technology based on Advanced Oxidation Processes and Membrane Bio-reactor

Investigator: Prof. C. Visvanathan;
 Collaborator: Dr. Jin Anotai, King
 Mongkut's Institute of Technology,
 Thailand
 Sponsor: Royal Thai Government
 Duration: 1 April 2003 – 30 June 2005
 Total Amount: 850,000 THB

Application of Constructed Wetlands for Treatment Wastewater from Smoked Rubber Sheet Plants

Investigator: Dr. Thammarat Kootatep;
 Collaborator: Dr. Udomphon
 Puetpaiboon, Prince of Songkla
 University, Thailand
 Sponsor: Royal Thai Government
 Duration: 1 April 2003 – 31 August
 2005
 Total Amount: 925,000 THB

Development of Onsite Sanitation Systems for Small-Scale Communities

Investigator: Dr. Thammarat Kootatep
 Sponsor: Pollution Control Department,
 Ministry of Natural Resources and
 Environment, Thailand
 Duration: 1 April 2003 – 30 June 2005
 Total Amount: 1,799,242 THB

Application of Constructed Wetlands for Septage Treatment

Investigator: Dr. Thammarat Kootatep
 Sponsor: Pollution Control Department,
 Ministry of Natural Resources and
 Environment, Thailand
 Duration: 1 March 2003 – 30 June
 2005
 Total Amount: 3,550,597 THB

AIT- Danish Technical University (DTU) Twinning Phase-II: Industrial Wastewater Treatment for Reuse

Investigator: Prof. Ajit P. Annachatre
 and Prof. Chongrak Polprasert
 Sponsor: Danish International
 Development Agency (DANIDA)
 Total Amount: 2,999,846 THB

Development of Databases for Greenhouse Gases with Reference to Methane in Thailand

Investigator: Dr. Apisit Eiumnoh;
 Collaborator: Dr. Preeda Parkpian
 Sponsor: Thailand Research Fund
 Duration: 1 June 1999 – 31 December
 2005
 Total Amount: 5,863,150 THB

Modeling for Environmental Impact Assessment of Odor**Pollution from Wastewater Treatment Plant**

Investigator: Dr. N. T. Kim Oanh
 Sponsor: Earthtech, Thailand
 Total Amount: 120,000 THB

Modeling Tool in Air Quality Management

Investigator: Dr. N. T. Kim Oanh
 Sponsor: Danish International
 Development Agency (DANIDA)
 Total Amount: 249,980 THB

Molecular Microbiological Approach to the Anaerobic and Anoxic Groups of Bacteria

Investigator: Dr. Oleg Shipin
 Sponsor: AIT Research Initiation Grant
 Total Amount: 50,000 THB

Small and Medium Scale Industries in Asia: Energy, Environment and Climate Interrelations

Investigators: Prof. C. Visvanathan,
 Prof. S. Kumar
 Sponsor: Swedish International
 Development Cooperation Agency
 (Sida)
 Total Amount: 18,122,400 THB

Technical Workshop on Sustainable Wastewater Treatment in Developing Countries

Investigator: Dr. Thammarat Kootatep
 Sponsor: Chia Nan University of
 Pharmacy & Science, Taiwan
 Total Amount: 200,000 THB

The Third Symposium on Southeast Asian Water Environment

Investigator: Dr. Toshiya Aramaki
 Sponsor: The University of Tokyo,
 Japan
 Total Amount: 735,600 THB

Research on Southeast Asian Water Environment and Technology

Investigators: Prof. C. Polprasert, Prof.
 C. Visvanathan, Prof. A. Annachatre,
 Dr. M. S. Babel, Dr. O. Shipin, Dr. K.
 Ikejima and Dr. T. Aramaki; Collaborator:
 University of Tokyo, Japan
 Duration: April 2004 – March 2005

Food Engineering and Bioprocess Technology**Alley Farming: An Organic Farming for Poverty Alleviation and Environmental Preservation**

Investigator: Prof. Athapol Noomhorm;
 Collaborators: Dr. Isara Sooksathan and
 Dr. Ed Sarabol, Ministry of Agriculture,
 Thailand
 Sponsor: Royal Thai Government
 Duration: 1 April 2003 – 30 June 2005
 Total Amount: 835,000 THB

Strengthening Competitive Competency of Thai Organic Food in European Union Market

Investigator: Prof. Athapol Noomhorm;
 Collaborator: Department of
 Agricultural & Resource Economics,
 Kasetsart University, Thailand
 Sponsor: Ministry of Agriculture,
 Thailand
 Duration: 1 March 2003 – 30 August
 2005
 Total Amount: 1,420,000 THB

Characterization of Chitosan Membranes

Investigator: Prof. S. K. Rakshit
 Sponsor: SE Asian Center for Water
 Environmental Technology (SACWET),
 Bangkok, Thailand
 Duration: 2003 – 2005
 Total Amount: 100,000 THB

Development of Standard Methods for Evaluating Thai Rice Quality by Near Infrared Spectroscopy

Investigators: Prof. Vinod K. Jindal,
 Prof. Athapol Noomhorm; Collaborator:
 Dr. Anupun Terdwongworakul,
 Kasetsart University, Thailand
 Sponsor: Royal Thai Government
 Duration: September 2004 – April 2005
 Total Amount: 950,000 THB

Improvement of Fumigation and Application of Controlled Atmosphere (CA) and Irradiation to Control Insects in Packaged Rice

Investigator: Prof. Athapol Noomhorm
 Sponsor: Thailand Research Fund and
 Rice Engineering Supply Co., Ltd.
 Duration: September 2003 –
 September 2005
 Total Amount: 1,046,000 THB

Gender and Development Studies**Women's Oral History Project in Northern Karen State**

Investigator: Dr. Kyoko Kusakabe
 Sponsor: Open Society Institute (OSI)
 Development Foundation, Switzerland
 Duration: 1 May 2004 – 31 May 2005
 Total Amount: 705,051 THB

Asia Link: Gender, Development and Public Policy Studies in the Asian Context

Investigators: Dr. Bernadette
 Resurreccion, Dr. Kyoko Kusakabe
 Sponsor: European Commission
 Duration: 10 September 2002 – 23
 December 2005
 Total Amount: 14,393,760 THB

Economic Transition and Technology Change in Silk Production, Northeast Thailand: Effects on Gender Relations, Environment and Health

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
 Sponsor: United Nations Human
 Settlements Programme (UN Habitat)/
 Urban Management Programme (UMP)
 & United Nations Economic and Social
 Commission for Asia and the Pacific
 (UNESCAP)
 Duration: 2004 – 2005
 Total Amount: 780,000 THB

Gender and Mobility in Vietnam

Investigator: Dr. Bernadette
 Resurreccion
 Sponsor: UMP – AIT
 Duration: 2004 – 2005
 Total Amount: 175,500 THB

**Gender Responsive City Planning
 and Management**

Investigators: Dr. Bernadette
 Resurreccion, Dr. Willi Zimmermann, Dr.
 Walter Jamieson
 Sponsor: United Nations Human
 Settlements Programme (UN HABITAT)
 Duration: 26 September 2000 – 31
 December 2005
 Total Amount: 9,374,102 THB

**Women's Oral History Project in
 Northern Sayaboury Province, Lao
 PDR**

Investigator: Dr. Kyoko Kusakabe
 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

(SANREM)/ Collaborative Research
 Support Program, U.S.A.
 Duration: 1 April 2005 – 31 December
 2005
 Total Amount: 1,151,496 THB

**Asian Irrigation Institution
 Systems in Transition:
 Sustainability and Implications**

Investigator: Dr. Ganesh Shivakoti
 Sponsor: The Ford Foundation
 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. Sawitree
 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. Mousa Nazhad;
 Collaborator: Ms. Somporn Chairrekij,
 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
 Sponsor: German Research Grant
 (DFG)
 Duration: 2004 – 2007
 Total Amount: 10,000,000 THB

**Hannover - AIT Greenhouse
 Project – Phase – II**

Investigator: Prof. V.M. Salokhe
 Sponsor: German Research Grant
 (DFG)
 Duration: 2004 – 2007
 Total Amount: 15,550,000 THB

Upgrading of Green House Facility

Investigator: Prof. V.M. Salokhe
 Sponsor: Hannover University,
 Germany
 Duration: 2004 – 2006
 Total Amount: 986,995 THB

**Asian Irrigation Institutions and
 Systems (AIIS) Dynamics Study
 and Database Management**

Investigators: Wai Fung Lam, Dr. G.P.
 Shivakoti; Collaborator: University of
 Hong Kong
 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
 Sponsor: Ford Foundation Grant to AIT
 and Andalas University
 Duration: February 2005 – December
 2008
 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: 995,000 THB

Cryogenic Preservation of Threatened Pangasiid 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

Facility 62-2003)

Investigators: Dr. N. Mithulananthan and Dr. Weerakorn Ongsakul
 Sponsor: European Commission (EC)
 Duration: January 2005 – January 2006
 Total Amount: 7,969,800 THB

Capacity Development for the Clean Development Mechanism (CDM) –Phase 2

Investigators: Prof. R. M. Shrestha, Prof. S. Kumar and Prof. S.C. Bhattacharya,
 Sponsors: United Nations Environment Programme (UNEP) Collaborating Centre on Energy and Environment (UCCEE), Denmark
 Duration: April 2003 – March 2006
 Total Amount: 8,400,000 THB

Capacity Development Activities for the Clean Development Mechanism

Investigators: Prof. R. M. Shrestha, Prof. S. Kumar and Prof. S.C. Bhattacharya,
 Sponsor: UNEP Risoe Centre on Energy, Climate and Sustainable Development (URC), Denmark
 Duration: April 2003 – March 2006
 Total Amount: 2,956,875 THB

Development of a Proposal on a Asian Climate Change Research Programme (ACCReP)

Investigators: Prof. S. Kumar, Prof. Ram M. Shrestha, Prof. C. Visvanathan, Prof. Nazrul Islam, Dr. N. T. Kim Oanh, Dr. N. Mithulananthan and Dr. Animesh Dutta
 Sponsor: Swedish International Development Cooperation Agency (Sida)
 Duration: September 2005 – February 2006
 Total Amount: 10,000,000 THB

Electricity Supply Industry International Conference 2006

Investigator: Prof. Surapong Chiraratananon
 Sponsor: Energy Conservation Promotion Fund
 Duration: January 2005 – May 2006
 Total Amount: 1,650,000 THB

Energy Code for New Buildings

Investigator: Prof. Surapong Chiraratananon
 Sponsor: Able Consultant Co., Ltd.
 Duration: October 2005 – December 2006
 Total Amount: 2,000,000 THB

Energy Lab Test

Investigator: Dr. N. Mithulananthan
 Sponsor: Service to Users
 Duration: January 2005 – December 2006
 Total Amount: 200,000 THB

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. Surapong 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
 Duration: 25 May 2006 – 30 June 2007
 Total Amount: 608,580.00 THB

Setting Up of National Associations for Cogeneration and Distributed Systems in ASEAN (EC-ASEAN Energy Facility 61-2003)

Investigators: Dr. Weerakorn Ongsakul 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 Institution, 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. Annachatre
 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. Polprasert, Dr. N.T. Kim Oanh
 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. Annachatre
 Sponsor: Swedish International Development Cooperation Agency (Sida)
 Duration: 2004 – 2008
 Total Amount: 29,492,630 THB

ARRPET Phase II - Coordination

Investigator: Prof. Ajit P. Annachatre
 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. Annachatre
 Sponsor: Swedish International

Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 3,405,000 THB

ARRPET Phase II - Annual Review Workshops

Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 8,827,225 THB

ARRPET Phase II - AIT Research Activities: Wastewater

Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 8,599,710 THB

ARRPET Phase II - NRI Research Activities: Wastewater Treatment and Management

Investigator: Prof. Ajit P. Annachhatre
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: 2004 – 2008
Total Amount: 24,641,185 THB

Wastewater Treatment and Management II

Investigator: Prof. Ajit P. Annachhatre;
Collaborators: Indian Institute of Technology, Kanpur, India; Indian Institute of Technology, Bombay, India; University of Technology, Malaysia; King Mongkut University of Technology, Thonburi, Thailand; and Vanlang University, Ho Chi Minh City
Sponsor: Swedish International Development Cooperation Agency (Sida)
Duration: January 2004 – December 2007
Total Amount: SEK 6,648,179

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 7,764,006

Aerosol Emission from Diesel - Powered Vehicle and Open Biomass Burning and Effects on Air Quality and Climate

Investigator: Dr. N. T. Kim Oanh;
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 Koottatep
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

RTG -Aqua MBR (Membrane Bio-Reactors): An Integrated Study on Treatment of Shrimp Aquaculture Wastewater Based on Membrane Bioreactor and Development of a Membrane Technology Curriculum

Investigator: Prof. C. Visvanathan
Sponsor: Royal Thai Government
Duration: 2005 – 2006
Total Amount: 1,000,000 THB

RDF Feasibility: Feasibility Study on Refuse Derive Fuel (RDF) Potential in 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: Kumoh National Institute of Technology, Korea
Duration: January 2004 – December 2006
Total Amount: 427,081 THB

Asia Link - Hamburg University of Technology (Technische Universität Hamburg-Harburg TUHH): Development of Teaching and Training Modules for Higher Education in Waste Management Sector

Investigator: Prof. C. Visvanathan
Sponsor: EU-Commission of the European Communities
Duration: 2003 – 2006
Total Amount: 1,374,912 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 Koottatep
Sponsor: European Union Asia Pro Eco
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

(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. Annachatre, Dr. Panalee Chevavidagarn, 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
 Sponsor: Department of Internal Trade, Ministry of Agriculture
 Duration: December 2005 – July 2006
 Total Amount: 600,000 THB

Analysis of Fish Sauce Obtained by Fermentation by Different Modes

Investigators: 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

Organic Food Production

Investigator: Prof. Athapol Noomhorm
 Sponsor: Royal Thai Government
 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) Research
 Duration: January 2005 – January 2008
 Total Amount: 450,000 THB

Quality and Safety Fish

Investigator: Prof. S. K. Rakshit
 Sponsor: L'organization internationale de la Francophonie (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

Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 to 2007
Total Amount: 495,000 THB

Gender Mainstreaming Programme in Lao PDR

Investigator: Dr. Kyoko Kusakabe
Sponsor: International Fund for Agricultural Development (IFAD) Asia Division
Duration: 2004 – 2007
Total Amount: 3,510,000 THB

Participatory Urban Infrastructure Project, Vientiane, Lao PDR

Investigator: Dr. Bernadette Resurreccion
Sponsor: United Nations Human Settlements Programme/Urban Management Programme (UN Habitat/UMP & Asian Development Bank (ADB)
Duration: 2004 – 2006
Total Amount: 3,120,000 THB

Post-Graduate Education: Gender and Social Analysis in Environment & Development

Investigator: Dr. Bernadette Resurreccion
Sponsor: International Development Research Centre (IDRC), Canada
Duration: 2005 – 2008
Total Amount: 8,778,000 THB

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 (AIIS) Dynamics Study and Database Management

Investigators: Wai Fung Lam, Dr. Ganesh Shivakoti

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

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 Nitivattananon, 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.

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 (extended to Aug 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\$

Technopreneur Development Program 2005. (National Electronics and Computer Technology Center TDP 2005)
 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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Ph.D, NTH, Trondheim, Norway;
Professor, Computer Science, and
Information Management (SET)

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B.Eng., Univ. of Poona, India; Ph.D.,
Univ. of Canterbury, New Zealand
Associate Professor,
Mechatronics and Microelectronics
(SET)

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B.Sc, M.Sc., Dhaka Univ.,
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of Durham, U.K.
Assistant Professor, Regional &
Rural Development Planning
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Professor, Telecommunications
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A.T.M. Nurul Amin

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Bangladesh; M.A., Ph.D., Univ. of
Manitoba, Canada.
Professor, Urban Environmental
Management (SERD)

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Visiting Lecturer, International
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M.Eng., Monash Univ., Ph.D., Univ.
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Professor, Energy (SERD)

Roberto Clemente

B.S.A.E., Univ. of the Philippines at
Los Baños; M.S., AIT; Ph.D., McGill
Univ., Canada
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Activities on Scholarships and Fellowships

AIT 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, Heilongjiang 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 researchers 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-CI) 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

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 in 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 Pakistan 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.

Sweden

Sweden is AIT's major development partner and the biggest scholarships provider for students from Cambodia, Laos and Vietnam. Under the MoU 2004-2008, Sweden through the Swedish International Development Cooperation Agency (Sida) will support 132 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.

Switzerland

Official multi-lateral assistance program of the Government of Switzerland to AIT ended in June 2004, although the last batch of students are still continuing with their expected graduation in May 2005. Due to the change in development emphasis and approach, Swiss Development Coordination will provide only bilateral

assistance to its program countries in Asia. AIT's strategy will be to tap into these bilateral programs and work jointly with the program countries to develop human resources and other forms of academic and research collaborations.

Taiwan

In order to revitalize relationships with Taiwan, AIT President Said Irandoust accompanied by Prof. Vilas Wuwongse, 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 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 NSTDA 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.

Financial Statements and Auditors' Report

Audit report of Certified Public Accountant

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

Financial Statements and Auditors' Report

Asian Institute of Technology Balance Sheets As at 31 December 2005 and 2004

Assets	<i>Note</i>	2005	2004 Restated
			<i>(in Baht)</i>
Current assets			
Cash and cash equivalents	5	151,393,545	472,643,210
Fixed deposits	6	195,586,241	184,011,156
Accounts receivable and accrued income	7	90,174,663	104,456,314
Receivables from Program fund		28,273,991	95,216,074
Advance deposits		245,216	245,217
Inventories		398,524	397,022
Assets held on behalf of donors	10	431,987,744	420,631,740
Assets held on behalf of UNEP RRC.AP	11	225,737,851	106,851,998
Total current assets		1,123,797,775	1,384,452,731
Non-current assets			
Property and equipment	8	885,983,433	844,959,327
Total non-current assets		885,983,433	844,959,327
Total assets		2,009,781,208	2,229,412,058
LIABILITIES AND FUND BALANCES			
	<i>Note</i>	2005	2004 Restated
			<i>(in Baht)</i>
Current liabilities			
Accounts payable and accrued expenses	9	94,505,355	143,128,020
Advances from Program fund		181,202,018	287,589,486
Deposits		7,107,533	5,441,696
Due to donors, and liabilities, of Agency fund	10	431,987,744	420,631,740
Due to UNEP RRC.AP	11	225,737,851	106,851,998
Total current liabilities		940,540,501	963,642,940
Fund balances			
<i>Unrestricted</i>			
General-fund balance		-	-
<i>Restricted</i>			
Specific-fund balances		131,580,259	124,757,382
Program fund balance		-	-
Capital funds balances		895,849,330	855,342,712
General reserve		41,811,118	285,669,024
Total fund balances		1,069,240,707	1,265,769,118
Total liabilities and fund balances		2,009,781,208	2,229,412,058

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

	Note	2005	2004 Restated
<i>(in Baht)</i>			
Revenues			
Tuition and other fees		477,164,925	476,055,263
Research grants and contracts		245,890,334	287,543,876
Support operations		153,702,925	167,267,609
Training		103,956,636	92,049,470
Other contributions		28,667,861	27,474,831
Faculty secondments		66,069,182	44,776,720
Total revenues		1,075,451,863	1,095,167,769
Expenditures			
Salaries and benefits	12	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)
Depreciation	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)

**ASIAN INSTITUTE OF TECHNOLOGY
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED 31 DECEMBER 2005 AND 2004**

	<i>Note</i>	2005	2004 Restated
<i>(in Baht)</i>			
<i>Cash flows from operating activities</i>			
Opening fund balances		1,265,769,118	1,612,764,561
Closing fund balances		1,069,240,707	1,265,769,118
Movement in fund balances		(196,528,411)	(346,995,443)
Adjustments to reconcile movement of fund balance provided by (used in) operating activities:			
Prior year adjustment to property and equipment		-	58,921
(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		(81,636,570)	(256,724,199)
<i>Changes in operating assets (increase) decrease:</i>			
Accounts receivable and accrued income		14,281,651	(41,320,195)
Receivables from sponsored programs		66,942,084	(95,216,075)
Deposits		-	96,300
Inventories		(1,502)	31,951
<i>Changes in operating liabilities increase (decrease):</i>			
Accounts payable and accrued expenses		(52,039,664)	68,641,648
Advances from sponsored programs		(102,970,469)	287,589,486
Deposits payable		1,665,837	(304,160)
Net cash used in operating activities		(153,758,633)	(37,205,244)
<i>Cash flows from investing activities</i>			
(Increase) decrease in fixed deposits		(17,674,709)	158,361,933
Proceeds from disposal of equipment		4,591,879	-
Increase in property and equipment		(145,241,517)	(80,420,309)
Net cash provided by/(used in) investing activities		(158,324,347)	77,941,624
<i>Cash flows from financing activities</i>			
Effects of foreign exchange translation			
on cash and cash equivalents		(9,166,685)	1,093,295
Net increase/(decrease) in cash and cash equivalents		(321,249,665)	41,829,675
Cash and cash equivalents at beginning of year		472,643,210	430,813,535
Cash and cash equivalents at end of year	5	151,393,545	472,643,210
<u>Less: Deposits held as security for guarantee issued by Bank</u>		<u>(30,692,490)</u>	<u>(50,011,624)</u>
Cash and cash equivalents at end of year	5	120,701,055	422,631,586
Supplementary disclosures of cash flows information:-			
Cash paid during the year			
Interest		-	-
Income tax		-	-

The accompanying notes are integral part of the financial statements

**ASIAN INSTITUTE OF TECHNOLOGY
BALANCE SHEETS
AS AT 31 DECEMBER 2005 AND 2004**

Notes	Restricted funds				Restricted capital funds			Total		
	Unrestricted current fund	Restricted fund - general	Endowment fund	Program fund	Restricted general reserve	Property and equipment	Liquid assets	Agency Fund	31 December 2005	31 December 2004 Restated
	<i>(in Baht)</i>									
Assets										
<i>Current assets</i>										
Cash and cash equivalents	5	39,992,015	(26,388,829)	100,431,966	129,261,003	(103,078,876)	11,044,681	131,585	151,393,545	472,643,210
Fixed deposits	6	48,917	8,818,058	31,148,293	11,495,254	144,075,719	-	-	195,586,241	184,011,156
Accounts receivable and accrued income	7	33,836,450	30,194,061	-	25,188,406	814,282	-	141,464	90,174,663	104,456,314
Receivables from sponsored programs		-	-	-	28,273,991	-	-	-	28,273,991	95,216,074
Advance deposits		181,355	63,861	-	-	-	-	-	245,216	245,217
Inventories		-	398,524	-	-	-	-	-	398,524	397,022
Assets held on behalf of donors	10	-	-	-	-	-	-	431,987,744	431,987,744	420,631,740
Assets held on behalf of UNEP RRC.AP	11	-	-	-	-	-	-	225,737,851	225,737,851	106,851,998
Total current assets		74,058,737	13,085,675	131,580,259	194,218,654	41,811,125	11,044,681	273,049	1,123,797,775	1,384,452,731
<i>Non-current assets</i>										
Property and equipment	8	-	-	-	-	-	885,983,433	-	885,983,433	844,959,327
Total non-current assets		-	-	-	-	-	885,983,433	-	885,983,433	844,959,327
Total assets		74,058,737	13,085,675	131,580,259	194,218,654	41,811,125	897,028,114	273,049	2,009,781,208	2,229,412,058
Liabilities and fund balances										
<i>Current liabilities</i>										
Accounts payable and accrued expense	9	71,999,822	8,037,057	-	13,016,636	7	1,178,784	273,049	94,505,355	143,128,020
Advances from sponsored programs		-	-	-	181,202,018	-	-	-	181,202,018	287,589,486
Deposits		2,058,915	5,048,618	-	-	-	-	-	7,107,533	5,441,696
Due to donors, and liabilities, of Agency fund	10	-	-	-	-	-	-	431,987,744	431,987,744	420,631,740
Due to UNEP RRC.AP	11	-	-	-	-	-	-	225,737,851	225,737,851	106,851,998
Total current liabilities		74,058,737	13,085,675	-	194,218,654	7	1,178,784	273,049	940,540,501	963,642,940
<i>Fund balances</i>										
General-fund balance		-	-	-	-	-	-	-	-	-
Specific-fund balances		-	-	131,580,259	-	-	-	-	131,580,259	124,757,382
Program funds balance		-	-	-	-	-	-	-	-	-
Capital funds balances		-	-	-	-	-	895,849,330	-	895,849,330	855,342,712
General reserve		-	-	-	-	41,811,118	-	-	41,811,118	285,669,024
Total fund balances		-	-	131,580,259	-	41,811,118	895,849,330	-	1,069,240,707	1,265,769,118
Total liabilities and fund balances		74,058,737	13,085,675	131,580,259	194,218,654	41,811,125	897,028,114	273,049	2,009,781,208	2,229,412,058

The accompanying notes are 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

	Notes	Restricted funds				Restricted capital funds		Total		
		Unrestricted current fund	Restricted fund - general	Endowment fund	Program fund	Restricted general reserve (in Baht)	Property and equipment	Liquid assets	31 December 2005	31 December 2004 Restated
Revenues										
Tuition and other fees		396,602,958	65,472,823	-	15,089,144	-	-	-	477,164,925	476,055,263
Research grants and contracts		1,245,334	(13,051,928)	-	257,696,928	-	-	-	245,890,334	287,543,876
Support operations		-	153,702,925	-	-	-	-	-	153,702,925	167,267,609
Training		-	6,889,809	-	97,066,827	-	-	-	103,956,636	92,049,470
Other contributions		5,796,019	18,979,495	535,250	3,357,097	-	-	-	28,667,861	27,474,831
Faculty secondments		-	66,069,182	-	-	-	-	-	66,069,182	44,776,720
Total revenues		403,644,311	298,062,306	535,250	373,209,996	-	-	-	1,075,451,863	1,095,167,769
Expenditures										
Salaries and benefits	12	421,832,541	86,801,118	-	137,485,037	-	-	-	646,118,696	679,096,234
Materials, supplies and services		52,760,558	67,648,134	292,368	141,335,288	-	-	-	262,036,348	260,549,847
Contracted services		13,394,728	20,473,093	-	54,007,853	-	-	-	87,875,674	72,758,716
Communication and travel		14,740,218	21,148,696	-	34,509,949	-	-	-	70,398,863	67,805,804
Utilities and insurance		32,062,436	7,078,884	-	2,260,137	-	-	-	41,401,457	41,419,730
Faculty secondments		-	66,069,182	-	-	-	-	-	66,069,182	44,776,720
Total expenditures		534,790,481	269,219,107	292,368	369,598,264	-	-	-	1,173,900,220	1,166,407,051
Operating surplus/(deficit)		(131,146,170)	28,843,199	242,882	3,611,732	-	-	-	(98,448,357)	(71,239,282)
Depreciation		-	-	-	-	-	101,317,949	-	101,317,949	90,690,879
Excess of revenues over expenditure (expenditure over revenues) including depreciation	8									
Non operating income (expenditures)		(131,146,170)	28,843,199	242,882	3,611,732	-	(101,317,949)	-	(199,766,306)	(161,930,161)
Investment income		8,328,655	1,023,567	(133,849)	-	6,087,098	13,590	989,530	16,308,591	10,903,066
Gain (loss) on exchange rate		(4,818,667)	2,598,465	-	7,712,156	1,692,633	(104,764)	4,175,126	11,254,949	(6,350,334)
Gain (loss) on disposal of assets		-	-	-	-	-	1,692,417	-	1,692,417	(2,259,951)
Net excess of revenues over expenditure (expenditure over revenues)		(127,636,182)	32,465,231	109,033	11,323,888	7,779,731	(99,716,706)	5,164,656	(170,510,349)	(159,637,380)

**Notes to the financial statements
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 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 the 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, the 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:

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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

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

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

	2005	2004 Restated
	<i>(in Baht)</i>	
Time deposits with maturity more than 3 months	<u>195,586,241</u>	<u>184,011,156</u>

7. Accounts receivable and accrued income

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

8. Property and equipment

	Campus Development	Buildings	Furniture & Equipment	Motor Vehicles	Library Assets	Construction in Progress	Total
<i>(in Baht)</i>							
<i>Cost</i>							
At 1 January 2004	45,186,079	1,029,799,200	707,905,719	33,173,419	218,816,931	48,785,326	2,083,666,674
Additions	2,819,093	323,684	55,812,177	-	13,115,760	8,349,595	80,420,309
Disposals	-	-	(1,229,935)	(6,081,672)	-	-	(7,311,607)
Transfers	-	39,059,051	-	-	-	(39,059,051)	-
At 31 December 2004	48,005,172	1,069,181,935	762,487,961	27,091,747	231,932,691	18,075,870	2,156,775,376
Additions	310,998	56,397,826	62,257,934	12,712,427	10,769,846	2,792,486	145,241,517
Disposals	-	-	(264,727)	(9,689,706)	-	-	(9,954,433)
Transfers	-	-	-	-	-	-	-
At 31 December 2005	48,316,170	1,125,579,761	824,481,168	30,114,468	242,702,537	20,868,356	2,292,062,460
<i>Accumulated depreciation</i>							
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)	-	-	(4,992,735)
Transfers	-	-	-	-	-	-	-
At 31 December 2004	-	451,448,432	650,760,551	18,475,637	191,131,429	-	1,311,816,049
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)	-	-	(7,054,971)
Transfers	-	-	-	-	-	-	-
At 31 December 2005	-	477,284,155	705,908,044	14,777,175	208,109,653	-	1,406,079,027
<i>Net book value</i>							
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

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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

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

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:

	2005	2004 Restated
	<i>(in Baht)</i>	
Funds received from donors	255,653,321	398,136,760
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:

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

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:

	2005	2004 Restated
	<i>(in Baht)</i>	
Funds received from UNEP RRC.AP	166,083,966	110,564,580
Total funds applied	132,222,212	115,213,187
Surplus/(deficit) for the year	33,861,754	(4,648,607)
Amount held on behalf of UNEP RRC.AP comprise:		
Cash and cash equivalents	223,360,452	104,604,509
Accounts receivable	480,880	-
Fixed assets	1,896,519	2,247,489
Total amounts held on behalf of UNEP RRC.AP	225,737,851	106,851,998
Opening amounts due to UNEP RRC.AP	100,192,598	104,642,133
Surplus/(deficit) for the year	33,861,754	(4,648,607)
Transfers from other funds	9,575	199,072
Closing amounts due to UNEP RRC.AP	134,063,927	100,192,598
Liabilities	91,673,924	6,659,400
Closing amounts due to UNEP RRC.AP and liabilities	225,737,851	106,851,998

12. Salaries and benefit

	2005	2004 Restated
	<i>(in Baht)</i>	
Wages and salaries	516,768,536	527,241,615
Social security costs	5,894,540	8,748,446
Pension costs	35,186,793	38,857,217
Income tax	20,280,048	45,847,836
Other costs	67,988,779	58,401,120
Salaries and benefit	646,118,696	679,096,234

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)

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

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 its 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

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



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