



AIT
Asian Institute of Technology



Annual Report 2011

Asian Institute of Technology



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ADDRESS:

P.O. Box 4, Klong Luang

Pathumthani 12120

Thailand

www.ait.asia

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- Professor Dennes T Bergado, Unified Programs at AIT
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CHAIRMAN'S MESSAGE



NOW in its fifty-second year, the Asian Institute of Technology is a special and unique example of an international approach to higher education that transcends boundaries, encourages regional amity, and works for the sustainable development of Asia and beyond.

As Chairman of the Board of Trustees, I am privileged to be associated with this noble endeavor, and to witness the empowerment of young people that takes place at the AIT through first-class scholarship and learning.

This has been a year when further strides were taken to position the Institute towards possibilities and opportunities that would enable its historical mission to progress to the future.

As you read this report, you will see that it was another year when AIT scored highly in teaching, research, capacity building and outreach, across the breadth of our extensive networks.

Conversely, however, 2011 will also be remembered for an historical low that tested the Institute's resolve and shook it to its very core. While certainly destructive to infrastructure, the devastating flood that submerged our campus nevertheless failed to wash away the AIT Community's most precious commodity – its spirit of international solidarity and goodwill.

The AIT's journey forward passed a significant historical signpost this year, when a new Charter was signed by twelve countries and one international organization. By moving towards becoming a fully fledged intergovernmental organization, a new era dawns for this noble institute situated in Thailand.



H.E. Dr. Tej Bunnag

Chairman of the Board of Trustees
Asian Institute of Technology

PRESIDENT'S MESSAGE

AMONG the great universities and institutes of higher learning around the region and throughout the world, the Asian Institute of Technology stands out as a uniquely international organization of higher learning committed to advancing quality teaching, learning, research, capacity-building and outreach beyond boundaries.

In 2011, AIT delivered on its pledge to “develop highly qualified and committed professionals who play a leading role in the region’s sustainable development and its integration into the global economy” in a multitude of ways, many of which are reflected throughout the pages of this Annual Report.



Once again, AIT distinguished itself through its niche capacity for networking, connecting, reaching out as a positive agent for change for people from developing countries, and by servicing countries in transition with knowledge and expertise. Across our faculty, staff, students, alumni, friends, partners, supporters and stakeholders, the Institute achieved great results through ever more partnerships with public and private sector enterprises, all the while emphasizing excellence and practicality in the delivery of cutting edge new knowledge and enhanced human capital.

In 2011, the Institute proudly finalized development of its research policy and research umbrella of “Sustainable Development in the context of Climate Change”. The five identified thematic areas of focus – Disaster Risk Management; Sustainable Land and Water Resources Management; Business and Innovation Models for a Green Economy; Urban and Rural Quality of Life and Sustainability; Lower Carbon, and Sustainable Production & Consumption Technologies & Management – aim to boost sustainable development of the region by strengthening its overall knowledge, development and business capacity, and by supporting communities and their sustainable economic development.

Throughout the year, a number of significant strides were made to enhance the overall delivery of quality learning through the introduction of innovative professional master’s programs, regular postgraduate programs and the expansion of offerings in our new undergraduate programs. The inauguration of the new China Office in Shanghai, the official launch of the on campus AIT Consulting office, and the significant expansion of AIT Vietnam’s facility, signified our continued ambition to connect our experts and knowledge to opportunities and emerging markets.

Near the end of the year, however, as a result of the Great Thailand Flood in 2011, the Asian Institute of Technology endured its greatest ever natural disaster and was forced to evacuate its cherished home campus. Indeed, AIT was crippled, with 50 percent of its infrastructure completely destroyed. Still, down but not undaunted, and through the resolve of the entire AIT Community, AIT was able to rise above the floodwaters that inundated our campus so that by year’s end the Institute was well on its way to recovery.

It was at this darkest moment in our 52-year history that I believe AIT collectively rose up to embrace its finest hour. Looking forward, as president, let us all resolve to rebuild the Asian Institute of Technology into an even greater institute dedicated to the advancement of the region and the people of Asia and beyond.

Prof. Said Irandoust

President

Asian Institute of Technology

ASIAN INSTITUTE OF TECHNOLOGY OVERVIEW



AIT QUICK FACTS:

- 🌐 Students: 2,300 from 50+ countries
- 🌐 Faculty: 120+ from 20+ countries
- 🌐 Alumni: 18,000+ postgraduate-level graduates from 88 countries and territories who live and work in 108 countries and territories
- 🌐 Partners: 330
- 🌐 Schools: 3
- 🌐 Research and Outreach Centers: 15
- 🌐 Research & Outreach Projects: 400+
- 🌐 Fields of Study and Academic Programs: 75+
- 🌐 Courses: 1000+
- 🌐 Research Staff: 100+

HOME to renowned experts, international centers, and international academic programs, the Asian Institute of Technology (AIT) situated north of Bangkok, Thailand, is one of the leading higher educational and research institutions in Asia.

Founded in 1959, AIT fosters a complete multicultural learning experience in English. More than a university, AIT is a unique international organization of higher learning that is regionally focused, global in outlook and cosmopolitan in character.

It carries out its mission ... “to develop highly qualified and committed professionals who play a leading role in the region’s sustainable development and its integration into the global economy” ... by supporting technological change and sustainable development through rigorous academic, research, capacity building and outreach activities.

AIT partners with public and private sector enterprises throughout the region and with some of the world’s top universities and international organizations. In addition to its main campus in Bangkok, Thailand, AIT has established a center in Vietnam.

The main AIT campus in Pathumthani province is a mosaic of nationalities, ethnicities and socioeconomic backgrounds. Diversity of students, staff and faculty members is a valued part of AIT campus life that leads to levels of cross-cultural engagement and international experiences not found at other university campuses.

AIT’s degree programs are provided by its School of Engineering and Technology; School of Environment, Resources and Development; and School of Management. Students benefit from challenging academic programs and exciting faculty-student research projects.

AIT Extension offers professional education, short-course training and professional degree programs. AIT Consulting links the institute’s expertise with industry partners and provides consulting services.

AIT also houses a number of reputed research and outreach centers, such as the Center of Excellence in Nanotechnology; ASEAN Regional Center of Excellence on the Millennium Development Goals (ARCMDG); Yunus Center at AIT, established in partnership with Professor Muhammad Yunus, recipient of the 2006 Nobel Peace Prize; CSR Asia Center at AIT; and the Center of Excellence on Sustainable Development in the Context of Climate Change (SDCC).

The institute is host to the 3R (Reduce, Reuse and Recycle) Regional Knowledge Hub, supported by the Asian Development Bank (ABD), UNEP and UNESCAP. AIT also hosts UNEP’s Regional Resource Center for Asia and Pacific (AIT-UNEP RR.CAP), a joint center with UNEP; the Regional Integrated Multi-hazard Early Warning System for Asia and Africa (RIMES); and the Asia office of Télécoms Sans Frontières.

With friends all over the globe, a five-decade-long history of academic excellence, and an enduring reputation for responding to emerging regional and global challenges such as climate change and sustainability, AIT is advancing new understanding and applying practical solutions across Asia through its knowledge hub in Thailand.

INSTITUTIONAL HIGHLIGHTS

January

AIT CONSULTING OPENS FOR BUSINESS



AIT Consulting, AIT's latest professional services arm, officially opened its doors for business on 20 January 2011 at a formal launching ceremony graced by numerous ambassadors, dignitaries, high-ranking officials, and senior AIT administration staff and faculty members.

The Chairman of the AIT Board of Trustees, H.E. Dr. Tej Bunnag, and AIT President Prof. Said Irandoust cut the ceremonial ribbon to open the shiny new facility and usher in a new era for consulting services at AIT. The ceremony was witnessed by a large number of the AIT Board of Trustees and other distinguished guests.

"AIT Consulting is AIT's approach for professionalizing consultancy services in an integrative way," said Dr. Naveed Anwar, Executive Director of AIT Consulting.

NORWAY ASSURES CONTINUOUS SUPPORT TO AIT

Norway has been a long time strong supporter of AIT, and it will continue to support the institute in the future. This was stated by Her Excellency Ms. Katja Christina Nordgaard, Ambassador of Kingdom of Norway to Thailand, Cambodia and Myanmar, during her visit to AIT on 11 January 2011.



H.E. Ms. Katja was impressed by AIT's achievements and progress since its inception and made detailed inquiries of the programs, strategy and funding pattern of the institute. She was accompanied by Mr. Erik Svedahl, Minister Counsellor and Mr. Moonstan Chatri, Senior Programme Officer of the Royal Norwegian Embassy.

AIT PRESIDENT MEETS BANGLADESH PRESIDENT



AIT President Prof. Said Irandoust met H.E. Mr. Mohammad Zillur Rahman, President of the People's Republic of Bangladesh during the second convocation ceremony of Eastern University. The President took the opportunity of informing H.E. Mr. Rahman about AIT and its initiatives in Bangladesh. The President also discussed the latest developments regarding the new AIT Charter with Her Excellency Hon. Dr. Dipu Moni, Foreign Minister of Bangladesh.

Prof. Irandoust also called on Nobel Laureate Prof. Muhammad Yunus and briefed him about developments at the Yunus Center at AIT.

“I BELONG TO THE AIT FAN CLUB”



“I belong to the AIT fan club and I admire AIT.” These were the comments of Mr. Jadul Apichatabutr, Chief Inspector General, Ministry of Interior of Thailand, during an interview conducted on the sidelines of the Regional Workshop on the ASEAN Roadmap for the Attainment of Millennium Development Goals (MDGs),” organized on 24-25 January 2011 in Bangkok.

Mr. Apichatabutr appreciated the work done by AIT, particularly as a centre for education among ASEAN nations. Mr. Nicholas Rosellini, Deputy Regional Director, Regional Bureau for Asia and the Pacific, United Nations Development Programme (UNDP), stated that it is important that AIT is now working on issues to do with MDGs.

REPUBLIC OF INDONESIA BECOMES 14TH SIGNATORY OF THE NEW AIT CHARTER

Indonesia became the fourteenth signatory of the new AIT Charter. In a modest ceremony organized at the Ministry of Foreign Affairs, Royal Thai Government in Bangkok on 20 January 2011, the Ambassador of Indonesia to Thailand, His Excellency Mr. Mohammad Hatta, signed the AIT



Charter. Indonesia joined 12 countries and one international organization in signing the AIT Charter.

AIT IS A VERY STRONG PARTNER: JAXA

Japan Aerospace Exploration Agency (JAXA) considers AIT to be a very strong partner in terms of space technology related work and will continue its collaboration. This was stated by Dr. Masanori Homma, Executive Director, JAXA, during a visit to AIT on 26 January 2011.



“Our association with AIT is not restricted to capacity building and education alone, since AIT’s contribution extends to substantive issues,” Dr. Homma said.

Dr. Homma was accompanied by Mr. Shinichi Mizumoto, Director, JAXA Bangkok Office. JAXA has been seconding staff and faculty, apart from supporting research at AIT.

AIT INAUGURATES CHINA OFFICE



AIT inaugurated a new office in Shanghai, a first-of-its-kind in the People's Republic of China (PRC), on 24 February 2011. The formal ribbon-cutting ceremony to inaugurate the AIT China office was jointly performed by H.E. Dr. Tej Bunnag, Chairman, Board of Trustees, AIT, and former foreign minister of Thailand; Ms. Yang Xinyu, Member, Board of Trustees, AIT, and Deputy Secretary-General, China Scholarship Council (CSC), Ministry of Education, PRC; and Prof. Said Irandoust, President, AIT.

H.E. Dr. Tej Bunnag said the AIT China office not only reaffirms the institute's longstanding relationship with China, but also signifies the beginning of a new era based on "an ardent desire for a bright future of linkages in higher education between China and Thailand, and other countries in the region."

GATES FOUNDATION INTERESTED IN WORKING WITH AIT

AIT enjoys a unique position and the Bill & Melinda Gates Foundation is exploring the possibility of AIT being an Asian node for regional cooperation. The Institute is high on our radar, and the Foundation would love to work with AIT. These were the remarks of Dr. Frank Rijsberman, Director, Water, Sanitation and Hygiene, Bill & Melinda



Gates Foundation, during a visit to AIT on 11 February 2011.

Dr. Rijsberman stated that the Foundation is looking towards AIT to come up with unique and innovative solutions in the field of sanitation. Impressed with the AIT's research, laboratory work and scientific papers, Dr. Rijsberman said they were interested to incentivize a move from laboratories to the field and a focus on practice and applications. "We are looking for innovations and technology, which can benefit 80 per cent of the population that does not have access to sanitation," he added.

ADB COUNTRY DIRECTOR PAYS MAIDEN VISIT TO AIT



Country Director, Thailand Resident Mission of the Asian Development Bank (ADB), Mr. Craig M. Steffensen, appreciated the role played by AIT, stating that it is heartening that the institute is producing graduates who return to their home countries to help in the nation building process.

Mr. Steffensen referred to his experience in Afghanistan where AIT alumni are engaged in infrastructure development, particularly creating the road network in the country. At AIT on his maiden visit as ADB

Country Director on 24 February 2011, Mr. Steffensen said he was aware of the long-term engagement of ADB with AIT.

CHINA SCHOLARSHIP COUNCIL ANNOUNCES 40 SCHOLARSHIPS



The China Scholarship Council (CSC) has announced 40 scholarships for qualified Chinese candidates to undertake Master's and Doctoral programs at AIT. A Memorandum of Agreement (MoA) to this effect was signed by Ms. Yang Xinyu, Deputy Secretary-General, of CSC, and Prof. Said Irandoust, President, AIT, during the inauguration ceremony of the AIT China office on 24 February 2011 at Shanghai.

CSC will provide 10 annual scholarships for a period of four years. The scholarships shall include tuition, registration, research and visa fee; apart from living stipend and health insurance; and a return international airfare to China by the most economical route. The funding for each Master's program will be up to 24 months, while the funding for each Doctoral program shall be up to 36 months.

'AIT GAVE ME THE BREAK I NEEDED' – ORACLE CORP VP

Dr. Rafiul Ahad, Vice President, Collaboration Product Development, Oracle Corporation paid tribute to his alma mater, stating that AIT gave him the break that he needed. Visiting the AIT campus on 14 February 2011, Dr. Ahad explained to senior fundraising officials about the impact AIT had on his professional career and personal life. "AIT was also where I met my wife, Frances Kasala, who was my classmate," he joked playfully to a large audience attending his special alumni lecture at AIT on the topic "Cloud Computing: What, Why and How."



Watching her husband address the packed Milton E. Bender Jr. Auditorium, fittingly enough on Valentine's Day, AIT alumna Ms. Frances Kasala, remembered the lecture hall vividly. Dr. Ahad also pledged to do what he could back home in California, USA, to assist AIT's fundraising campaign.

SRI LANKA SUGGESTS AIT COLOMBO OFFICE

H.E. Mr. S.B. Disanayake, Minister of Higher Education, Sri Lanka, has welcomed the initial idea of opening of an AIT city office in Colombo. The minister suggested that the AIT Colombo office could offer short-term executive training programs in Sri Lanka, apart from overseeing the development of a full-fledged AIT campus in Hambantota. The minister made these remarks during a meeting with the AIT President Prof. Said Irandoust and Mr. Sanjeev Jayasinghe, Director Fundraising and Head AIT-Sri Lanka Satellite Campus Task Force, on 15 February 2011.



Prof. Irandoust also met H.E.Mr. Namal Rajapaksa, Minister for Southern Development along with Mr. R.M.D.B. Meegafnulla, District Secretary, Hambantota.

AIT THE FOCAL POINT FOR SATELLITE DATA INFORMATION FOLLOWING JAPAN'S DISASTER



AIT played a critical role in helping recovery efforts in Japan, following the earthquake and tsunami. The Cabinet Office of Japan activated the International Charter, and the Charter had appointed AIT's Dr. Masahiko Nagai as project manager of this disaster for the International Charter on 'Space and Major Disasters'. International space organizations worked along with Dr. Nagai to provide maps and satellite images for rescue and relief operations.

"Japan Aerospace Exploration Agency (JAXA) is normally the project manager of Japan, but since in the immediate aftermath of the disasters, the JAXA repository was down, it was decided that I would act as project manager," Dr. Nagai revealed. Dr. Nagai is Associate Director at AIT's Geoinformatics Center, and has been seconded to AIT by JAXA. The International Charter was activated following a disaster and partner agencies immediately start sharing satellite information and data on the disaster.

21 BANKERS ATTEND LAUNCH OF PROFESSIONAL MASTER'S IN BANKING AND FINANCE



Professional Master's in Banking and Finance (PMBF), a program jointly offered by AIT and the University of Applied Sciences Northwestern (FNHW), Switzerland, was formally launched at AIT on 14 March 2011.

The first batch of 21 bankers participated in the inaugural function held at Milton E. Bender Jr. Auditorium at AIT. All participants were from Bangladesh Bank, the central bank of Bangladesh.

Delivering the welcome address via a teleconference, Dr. Atiur Rahman, Governor, Bangladesh Bank, remarked that the program would help the young bankers emerge as future leaders. "AIT is a world class institute and this program would contribute towards our aim of ensuring that Bangladesh Bank becomes a

NASA ATTACHÉ VISITS AIT



AIT hosted a visit by a senior official representative of America's National Aeronautics and Space Administration (NASA). Mr. Justin Tilman, Attaché at the U.S. Embassy in Tokyo, and NASA's representative in the Pacific Rim, visited AIT on 25 March 2011. Arriving at the invitation of the Geoinformatics Center at AIT, Mr. Tilman met with senior officials and gave a lecture to students and faculty titled "NASA Programs and Cooperation in Asia."

Mr. Tilman elaborated on NASA's five core themes, all of which have international cooperation components. NASA organizes its work through its Human Spaceflight, Science, Exploration, Aeronautics, and Education Programs. He gave insight into its famed Human

Space Program, offering operational specifics about the 30-year-old Shuttle Program, the International Space Station program and its associated international partnerships.

world class bank,” Dr. Rahman said. He added that the program participants had been selected on a competitive basis, and that this was the first time that the bank had sent participants for a Professional Master’s program.

AIT LAUNCHES DOUBLE DEGREE PROGRAM WITH HOKKAIDO UNIVERSITY



AIT and Hokkaido University (HU) signed a Memorandum of Agreement (MoA) launching a Double Degree program. The Double Degree program was initiated between the Transportation Engineering field of study at AIT and the Research Group of Policy for Engineering and Environment of Engineering at HU.

The MoA signing ceremony was held at AIT on 17 March 2011 in the presence of Prof. Said Irandoust, President, AIT, where Dr. Nitin V. Afzulpurkar, Dean, School of Engineering and Technology (SET) signed the MoA on behalf of AIT. The

MoA was initiated Prof. Takashi Nakatsuji, Professor, Graduate School of Engineering, HU, and Dr. Kunawee Kanitpong, Coordinator, TRE, at AIT’s School of Engineering and Technology (SET).

BJU SIGNS MOU WITH AIT, SEEKS EXCHANGE OF DOCTORAL STUDENTS



Beijing Jiaotong University (BJU) signed a MoU with AIT, seeking to establish a strong collaboration in academic and research programs. BJU and AIT decided to collaborate in academics, research, training, and faculty development, apart from jointly organizing student activities.

The MoU was signed by Prof. Ning Bin, President of BJU, and Prof. Said Irandoust, President, AIT, on 23 March 2011. AIT and BJU also plan to launch a two stage Master’s program in high speed railways. Prof. Bin said that it was because of AIT’s strong international brand that three Deans and one Vice Dean were part of the BJU delegation visiting AIT. Prof. Bin also expressed interest in AIT’s Doctoral of Business Administration (DBA) program.

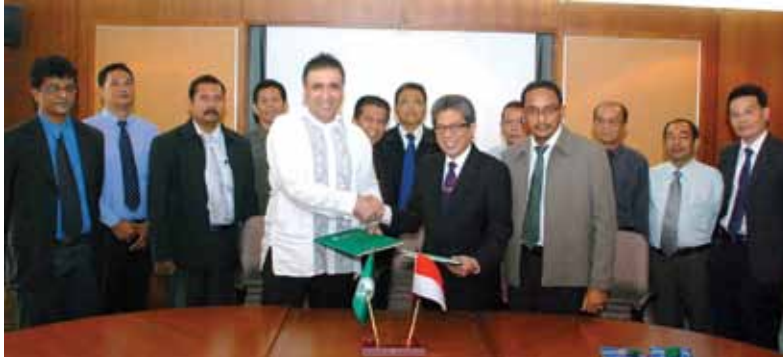
UGANDA’S BUSITEMA UNIVERSITY SIGNS MOU

AIT and Busitema University (BU), Uganda, signed a MoU to enable cooperation between the two institutes. The MoU was signed by Prof. Mary Jossy Nakandha Okwakwol, Vice Chancellor, BU, and Prof. Said Irandoust, President, AIT, on 17 March 2011.



The MoU followed three-day-long deliberations with the delegation from BU, which arrived at AIT on 15 March, 2011. The delegation held talks with senior AIT officials and also visited AIT facilities. Interacting with senior AIT officials, Prof. Okwakwol stated that BU is the only public university in Eastern Uganda. The University has seven campuses and is keen to develop a science and technology park. Prof. Irandoust stated that AIT is keen to expand its horizons in to Africa. “Asia and Africa have a lot to learn from each other,” he remarked, while adding that the visit of BU is very important for AIT.

100 SCHOLARSHIPS FOR ACEH STUDENTS



A five-year program involving 100 scholarships for staff and faculty members of Government of Aceh, Indonesia will be launched at AIT. The Government of Aceh will provide 75 per cent of tuition fellowships and transportation, living and other associated costs, while AIT will offer 25 per cent tuition fellowship.

This was finalized under a Memorandum of Agreement (MoA) signed by AIT President Prof Said Irandoust on 19 April 2011. Students under this scholarship program will be spread over five years and scholars will pursue Master's or Doctoral degrees at AIT, mainly in the fields of agriculture, horticulture, aquaculture and fisheries, and food processing. The program will be open for staff and faculty members of the Government of Aceh and higher learning institutions in Aceh. In addition to the MoA, the Government of Aceh also plans to send more students to pursue community development study programs at AIT.

AIT-VIETNAM CAMPUS PLAN RECEIVES POSITIVE SUPPORT



AIT moved closer towards establishing a satellite campus in Vietnam, with a delegation headed by the Vice Chairman of the People's Committee of Ho Chi Minh City, Mr. Hua Ngoc Thuan, offering land and "all support" to AIT to help establish a full-fledged AIT-Vietnam campus.

The eight-member delegation from Vietnam which visited AIT on 18 April 2011 stated that they would prepare a final proposal and complete all formalities so that the concept of AIT satellite campus in Vietnam could be presented to the appropriate authorities. Mr. Thuan stated that an area ranging between 22-25 hectares will be available exclusively to AIT to establish a university in Ho Chi Minh City. The land demarcation follows a meeting with participants of various departments of Ho Chi Minh City. Located in the northwest part of Ho Chi Minh City, the area will also host two other university campuses.

"I have already informed the Vice Prime Minister of Vietnam and the Vice Minister of Education about the proposal to partner with AIT to establish a university," Mr. Thuang added. "We are requesting AIT to open a University in Ho Chi Minh City to help meet the human resource needs of not just our city, but also of entire Vietnam," Mr. Thuan said, while addressing senior AIT officials.

AIT A 'NATURAL BRIDGE' TO AFRICA'S VAST OPPORTUNITIES



African business executives, politicians, government officials and thought leaders concluded the first day of the Africa and South-East Asia Business Forum (AFRICSEA) 2011 convinced that Africa's social and economic potential matches its vast physical size. According to co-organizer Mr. Didier Acouetey, Executive President, AfricSearch, the annual international forum aims to position Africa in South-East Asia (SEA) by facilitating direct contact between potential partners located on both continents.

AIT was the sole higher learning institution partner for the event that opened on April 19 under the theme "Bringing Africa to South East Asia." Dr. Roland Amoussou, AIT adjunct faculty, and co-founder and president of the Asia-Africa Foundation, represented AIT, leading a small delegation of associates from Bangkok that included Mr. G.I.D.

Chima, Senior Counsellor, Economic Matters, Embassy of Nigeria to Thailand; Mr. Joseph Bazambanza, Senior Partner, Jobaz Consulting; and Mr. Wolfgang Bertelsmeier, former World Bank and IFC official, and Asia-Africa Foundation representative.

**CULTURAL SHOW
2011: AIT UNITES IN
SOLIDARITY FOR JAPAN**



As the lights dimmed and the spotlight shone, a bevy of AIT’s finest performing artists took to the AIT Conference Center auditorium stage to sing, dance and entertain for the sheer love of performance and to show solidarity for the victims of the recent catastrophe in Japan.

AIT Cultural Show 2011 attracted a full-house of over 500 who witnessed a wide variety of acts and nationalities compete in singing, drama, talent show, and dance competitions.

Organized on 1 April 2011 under the theme “We Unite in Solidarity” the evening brought out the very best of what the AIT Community represents. As teams and individuals vied for the judges’ approval, organizers said the competition took a back-seat to the spirit of international togetherness on display. The Gender and Culture Committee of the AIT Student

Union spearheaded a donation box for Japan at the auditorium’s entrance, and the capacity crowd observed one minute of silence for Japan prior to the show’s opening curtain.

**GENERAL DECLARATION OF UNDERSTANDING
INKED BETWEEN AIT, CIRAD AND UNIVERSITY OF LA
RÉUNION, FRANCE**

Following a five-day visit by senior officials to the French overseas Department of Réunion Island, AIT signed a General Declaration of Understanding on 9 April 2011 between AIT, CIRAD and University of La Réunion, France.



The tripartite General Declaration of Understanding, signed on behalf of AIT by Prof. Sudip Rakshit, Vice President for Research, expresses the intention to collaborate on a number of fronts, including academic exchanges of scientists and faculty, joint research, student mobility, joint thesis, and publications. It makes possible a joint master’s program, especially one on ecological intensification research.

Prof. Rakshit led the AIT delegation from 4-9 April 2011 to Reunion that included Prof. Ajit Annachatre (EEM), Dr. Wenresti Gallardo (AARM), Dr. Manzul Hazarika (Geoinformatics Center) and Dr. Lionel Dabbadie (CIRAD seconded faculty to AARM). Mr. Olivier Dréan, Coordinator of AIT-French Collaboration, facilitated the mission.

**AIT ALUMNUS APPOINTED LEDCOR GROUP APPLIED
RESEARCH CHAIR**



Dr. Haneef Mian, an alumnus of AIT, has been appointed the Ledcor Group Applied Research Chair in Oil Sands Environmental Sustainability at Northern Alberta Institute of Technology (NAIT), Canada. Dr. Haneef credits AIT for the knowledge gained during graduate studies, and the advice offered to him at the Environmental Engineering and Management (EEM) program.

“The graduate training at AIT-EEM provided me with the state-of-the-art tools, techniques and practices that assisted me in pushing the envelope,” he said. Describing his studies at AIT as “amazing” Dr. Haneef, who was earlier with the Energy Resources Control Board (ERCB), completed his Master’s from AIT’s Environmental Engineering and Management (EEM) in 1997. He is leading the “Green Chemistry and Green Engineering Initiative” at the School of Sustainable Building and Environmental Management at NAIT. Following his appointment, he was interviewed in Tech Life Mag, apart from being featured in the winter 2011 issue of the NAIT newsletter.

428 GRADUATES FROM 25 COUNTRIES GRADUATE



Four hundred and twenty eight graduates from 25 countries spread across five continents graduated from AIT on 26 May 2011. Thailand provided the maximum cohort of 144 graduates, followed by 93 graduates from Vietnam. Dr. Madhav Karki, Deputy Director General of the International Center for Integrated Mountain Development (ICIMOD), who read the graduation speech on behalf of Dr. Andreas Schild, Director General of ICIMOD, exhorted students to take risks, and experiment in their young professional life.

ASSAM'S CHIEF MINISTER H.E. TARUN GOGOI VISITS AIT, STATES INTEREST IN PARTNERSHIP

The Chief Minister of Assam State, India, H.E. Tarun Gogoi, expressed interest in collaborating with AIT to address a number of priority concerns for his state, particularly in the areas of education and sustainable socioeconomic development. "These issues must be solved through a focus on improved education that stresses science and technology," Chief Minister Gogoi told AIT President Prof. Said Irandoust. He made these comments on 3 May 2011 while leading a high-ranking delegation to AIT to explore possibilities for partnership. The chief minister was accompanied on the visit by H.E. Mr. Pisan Manawapan, Thailand's newly appointed Ambassador to India. Ambassador Manawapan officially assumed his diplomatic post in New Delhi on 22 March 2011.



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INDIAN ADMINISTRATIVE OFFICERS FOR TRAINING PROGRAM AT AIT



AIT is a good platform for providing training facilities in the field of disaster management. This was the view expressed by Mr. K.S.Prabhakar, Secretary, Disaster Management, Government of Karnataka, India, during the inaugural function of the training course on "Geospatial Technology for Flood Mitigation" organized for Indian government officials on 23 May 2011. Stating that the Indian province of Karnataka faces the flood menace regularly, Mr. Prabhakar hoped that the training program would help in building capacity of the administration in tackling such disasters. Mr. Prabhakar led a team of 11 Indian Administrative Service (IAS) officers to participate in the training program at AIT.

AMBASSADOR PLAYS HOST TO JAPANESE SCHOLARSHIP RECIPIENTS



Ambassador of Japan, H.E. Mr. Seiji Kojima felicitated seven AIT Japanese scholarship recipients at a dinner hosted at his residence to celebrate their graduation on 19 May 2011. H.E. Mr. Kojima congratulated the graduating students, and highlighted the importance of AIT as a development partner in promoting sustainable development in the region through higher education. H.E. Mr. Kojima thanked AIT and its contribution to the Government of Japan towards reconstruction activities in the affected areas after the March 2011 earthquake and tsunami disaster. The graduating students included three students from GDS field of study and four from Remote Sensing and Geographical Information Systems (RS-GIS).

IPLA GLOBAL SECRETARIAT COMES TO AIT



A major new global initiative, IPLA, launched by the United Nations Commission on Sustainable Development (UNCSD) to aid local governments in managing growing waste problems, was announced at UN-Headquarters in New York on 13 May 2011. The Global Secretariat of International Partnership for Expanding Waste Management Services of Local Authorities (IPLA) is hosted by AIT. The project is spearheaded by AIT's Prof. C. Visvanathan. Prof. Sudip Kumar Rakshit, Vice President for Research, represented AIT at the official launch of the IPLA at UN-Headquarters in New York on 13 May 2011.

DPRK SENIOR GOVERNMENT OFFICIALS TRAIN AT AIT

Ten senior officials from the Democratic People's Republic of Korea (DPRK) participated in a highly specialized four-week training program on integrated watershed management and reforestation at AIT. The



training course from May 16 – June 10 on Integrated Watershed Management (IWSM) and Reforestation was a part of the project "Promoting Regional and Economic Cooperation in North-East Asia with particular focus on the Democratic People's Republic of Korea (DPRK)" implemented by United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP). The course, conducted largely by AIT faculty and implemented by UNESCAP, was tailor-made for government officers and technical personnel from North Korea. The curriculum has been jointly prepared by UNESCAP and AIT and is based on the requirements for staff training prepared by the Ministry of Land and Environment Protection and the State Academy of Sciences, Government of the DPRK.

NEPAL PRESIDENT, PM PRAISE AIT



President of Nepal, Rt. Honorable Dr. Ram Baran Yadav and Prime Minister Rt. Honorable Jhala Nath Khanal praised AIT, and thanked the Institute for its contribution towards development of human resources in Nepal. They made these remarks in separate meetings with an AIT delegation led by the AIT President Prof. Said Irandoust on 16 June 2011. The Nepal president referred to the positive experience of his son when he was studying at AIT, stating that AIT enjoys a prestigious place in the realm of education. President Yadav offered his full support to AIT and wished the Institute success in its endeavours. Prime Minister Khanal highlighted the importance for Nepal to consolidate and update its educational system.

AIT AND RSU LAUNCH 5-YEAR INTERNATIONAL BACHELOR-MASTER DEGREE PROGRAM IN ENGINEERING



AIT and Rangsit University (RSU) joined forces to offer a new Unified International Bachelor-Master Degree program in engineering that enables students in Thailand to earn both an undergraduate and graduate degree in five years. The Memorandum of Agreement (MoA) was signed by Dr. Arthit Urairat, President, RSU and Prof. Said Irandoust, President, AIT on 2 June 2012. The English-only Unified Program allows students to earn a bachelor in engineering from RSU, and then further their postgraduate-level engineering studies at AIT. RSU will initially offer a Bachelor of Engineering (B.Eng.) in Civil Engineering, Electrical Engineering and Computing Engineering.

UNISDR FOR AIT PARTICIPATION IN GLOBAL ASSESSMENT REPORT



The United Nations International Strategy for Disaster Reduction (UNISDR) is keen to associate with AIT in the preparation of the Global Assessment Report (GAR). This was stated by Mr. Jerry Velasques, Senior Regional Coordinator, UNISDR for Asia and Pacific, at a meeting held at AIT on 3 June 2011. Interacting with the AIT President and other senior faculty and staff members, Mr. Velasquez stated that the two had collaborated during the Asia Pacific Disaster Report in 2010. "We know the strengths of AIT and we are keen to learn more about other possibilities of collaboration particularly in undertaking analytical work," he said.

NEPALI ALUMNUS BINDA PANDEY ELECTED AT ILO

AIT alumnus Ms. Binda Pandey was elected as Deputy Member of the Governing Body of the International Labour Organization (ILO), a United Nations specialized agency. Her election took place at the 100th Session of the International Labour Conference held from 1-17 June 2011 in Geneva, Switzerland. Ms. Pandey is the former Deputy Secretary Gen-

eral and member of the central planning commission of the General Federation of Nepali Trade Unions (GEFONT). AIT President Said Irandoust offered his congratulations on her being the first woman from South Asia elected to the 188-member governing body of the ILO.

AIT AND NEF-CCN COLLEGES TO OFFER JOINT EDUCATIONAL PROGRAMS



AIT and Nepal Education Foundation – Consortium of Colleges, Nepal (NEF-CCN), will jointly offer Two-stage Master’s Programs in Business Administration, Energy Business Management, and in Energy and Environment, as well as Two-stage Bachelor Programs in ICT, and Civil and Infrastructure Engineering. This followed the signing of three Memorandums of Agreement by Prof Said Irandoust, President, AIT and Prof. Sriram Bhagut Mathe, Chairperson of NEF-CCN, on 15 June 2011 at a function organized in Kathmandu, Nepal.

AIT INVITED TO JOIN “BUSINESS AWARD FOR BETTER CITIES”

AIT was invited by UN-HABITAT to join the network of partners for the “Business Award for

Better Cities.” AIT joins other universities including the University of Pennsylvania (USA), Tongji University (China), ESSSEC Business School (France), and London School of Economics (UK) as partners with UN-HABITAT. While inviting AIT to join the network, UN-HABITAT described AIT as an “international renowned institution,” that will bring real added value to the award.

UNESCO DELEGATION FOR PARTNERSHIP WITH AIT ON SUSTAINABILITY ISSUES

UNESCO is working on mainstreaming the issue of climate change in curricula and is keen to develop sustainable development indicators. UNESCO Bangkok is also keen on policy initiatives, and it wishes to tap the expertise available at AIT. This was the sentiment expressed by a delegation of UNESCO which visited AIT on 27 June 2011. “UNESCO is keen that educational curriculum includes climate change and sustainability,” Ms. Vimonmas Pam Vachatimanont, Programme Assistant, Education for Sustainable Development Unit (ESD) remarked. Ms. Katie Vanhala, Associate Expert, ESD, stated that the concept of green schools and community learning is a focus area. Ms. Lay-Cheng Tan, Programme Officer, Asia-Pacific Programme of Educational Innovation for Development (APEID) spoke on the issue of teacher training, and was interested to learn about AIT’s experience on training of trainers.



UNIFIED BACHELOR-MASTER PROGRAM LAUNCHED IN INDIA

A Unified Bachelor-Master-Program (UBMP) in the Agri-Business Management (ABM) was formally launched on 13 June 2011 at the Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS), Allahabad, India. The inaugural ceremony was attended by Prof. S. B. Lal, Pro Vice Chancellor, SHIATS, and Dr. Weerakorn Ongsakul, Dean, AIT’s School of Environment, Resources and Development (SERD). This program allows students to complete a Bachelor’s and Master’s degree in a period of five years, as opposed to a regular period of six years. Students spend their first four years at SHIATS, and they move to AIT in the fifth year to complete the Master’s program. The Bachelor’s degree will be awarded by SHIATS and the Master’s degree will be awarded by AIT.



54 KIIT STUDENTS RETURN AFTER A MONTH AT AIT



Fifty four students of Kalinga Institute of Industrial Technology (KIIT) returned to India after spending a month of intensive studies at AIT. They were awarded certificates of attendance by Dr. Weerakorn Ongsakul, Dean, School of Environment, Resources and Development (SERD), at a concluding ceremony organized at the AIT Conference Center. The students, who were from the School of Rural Management of KIIT, went through a program comprising of studies and coursework at AIT, combined with field work at Saraburi province in Thailand. AIT enrolls KIIT students as special students during the inter-semester period and offers them a certificate in Rural Management, which is counted towards credits in KIIT's MBA in rural management. Led by Prof. Gopal Bahadur Thapa; Prof. Jayant Kumar Routray; and Dr. Soparth Pongquan of Regional and Rural Development Planning (RRDP) field of study at AIT's SERD, the program is now running into its second year.

AIT FEATURED AMONG SIX SUCCESSFUL KNOWLEDGE ENVIRONMENTS



AIT was featured by the Swedish publication *Kampen om Hjärnorna*, as one of the six educational institutes which possess a successful knowledge environment. AIT, along with University of Geneva; University of Zurich, Switzerland; University of Melbourne, Australia; University of Minnesota, USA; and Technical University, Munich; were chosen for their ability to create a knowledge environment which is successful in attracting international students and furthering knowledge. "Green campus becomes a knowledge hub" is how journalist Ms. Linda Karl Sson Eldh described AIT. AIT's internationality is also mentioned in the article. Sixty per cent of AIT's students come from abroad, and an international climate pervades its entire premises, the article said. AIT is also home to several international organizations and NGOs,

since it is perceived to be a politically neutral platform. *Kampen om Hjärnorna* is a publication of Akademiska Hus, a Swedish state-owned company which manages real estate and facilities in academic and research institutions in Sweden.

'US-THAI CREATIVE PARTNERSHIP' EXPLORES OPPORTUNITIES WITH AIT



Opportunities exist for AIT to partner with the 'US-Thai Creative Partnership' across a broad range of activities. The initiative is spearheaded by the Embassy of the United States in Thailand. This was stated by Ms. Harriet Foster, Creative Partnership Coordinator, United States Embassy in Thailand, who paid her maiden visit to AIT on 18 July 2011. Ms. Foster was accompanied by Dr. Chonchanok Viravan, Advisor, Amata Science City project. The Creative Partnership is intended to streamline existing Thai-U.S. business and government efforts in innovation; increase research and university exchange; and build beneficial bridges between the private sector and academia.

AIT TO FOSTER CAPACITY BUILDING IN MALDIVES



Civil Service Commission (CSC) of Republic of Maldives signed a Memorandum of Understanding (MoU) to create more capacity among civil servants to pursue public sector reform initiatives. The MoU was signed by Mr. Mohammed Fahmy Hassan, Chairman of Maldives CSC, and Prof. Sudip Kumar Rakshit, Vice President, Research, AIT, on 25 July 2011. The MoU aims to facilitate staff exchange programs, training of trainers and offer of professional degree and certificate programs. AIT experts will visit Maldives to offer management and training consultancy. AIT will also encourage Doctoral and Master's level research in areas of relevance to Maldives. AIT Extension will despatch a fact finding mission to Maldives to determine the capacity development needs of various ministries in the country.

ESCAP WELCOMES AIT EXPERTISE ON GREEN GROWTH CAPACITY DEVELOPMENT TRAINING MODULES

United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) are interested in developing Green Growth Capacity Development



Training Modules along with AIT. AIT's expertise is sought in providing case studies, and subject experts to deliver the training modules. In a meeting at AIT on 6 July 2011, a delegation including Dr. Aida Karazhanova, Head, Institutional Support Component, AIT-UNEP Regional Resource Centre for Asia and the Pacific (RRC-AP); Ms. Maria Tomovic, Green Business and Sustainable Development Consultant, Environment and Development Policy Section (EDPS), UNESCAP; Mr. Kenan Mogultay, and Ms. Pitchayanin Sukholthaman highlighted the Green Growth Capacity Development Programme (GGCDP). Ms. Tomovic remarked that the GGCDP is aimed at policy-makers in South-East Asia, Central Asia and the Pacific. She expressed interest in AIT providing case studies and also offering subject experts for the program.

AIT AMONG UNESCO-IHE PARTNERS IN GATES FOUNDATION PROJECT

AIT was among the eight partners of UNESCO-IHE Institute for Water Education, which was awarded a US\$8 million grant from the Bill & Melinda Gates Foundation (BGMF). Spread over five years, the grant is targeted at education and research in postgraduate programs with a focus on solutions for the urban poor in sub-Saharan Africa and Southeast Asia.



The project was developed by Prof. Damir Brdjanovic, Professor of Sanitary Engineering, UNESCO-IHE. Dr. Thammarat Koottatep of AIT's School of Environment, Resources and Development (SERD) is spearheading the project for AIT. The Bill & Melinda Gates Foundation announced this grant at the AfricaSan 2011 Conference in Kigali, Rwanda, on 19 July 2011. This is one of the largest research and postgraduate education projects targeting sanitation for the urban poor. Earlier, a delegation of the Bill & Melinda Gates Foundation headed by Dr. Frank Rijsberman, Director, Water, Sanitation and Hygiene; and Mr. Doulaye Kone, Senior Program Officer had visited AIT in February 2011.

532 STUDENTS FROM 42 COUNTRIES JOIN AIT



Five hundred and thirty-two students from forty-two countries constituted the latest batch of students at AIT enrolled for the August 2011 semester. Those accepted for admission at AIT included students from North and South America, Europe, Africa and Asia. Welcoming the students on Orientation Day on 10 August 2011, Prof. Said Irandoust, President, AIT, remarked that AIT is an ideal platform for not only learning, but also for forging lifelong friendships, connections and networks. "AIT is not a normal university, as it focuses on networking and learning through interaction and observation," Prof. Irandoust remarked. He added that AIT is an International Intergovernmental Institute of higher learning, and unlike traditional universities, students would be awarded a degree by an Intergovernmental Institute.

AIT INKS MOU WITH NOBEL LAUREATE OF TERI UNIVERSITY



AIT entered into a Memorandum of Understanding (MoU) with India's TERI University which opens up possibilities for cooperation in across a range of academics and research. The MoU was signed in 4 August 2011 by AIT President Said Irandoust and Dr. Rajendra K. Pachauri, Chancellor, TERI University, India. Dr. Pachauri was the co-winner of the 2007 Nobel Peace Prize. The signing was made in conjunction with the opening ceremony of the Fourth International Conference on HealthGIS 2011, which took place in New Delhi, India on 4-6 August 2011. The AIT President was a guest of honor for the conference and delivered

the inaugural address. Later, President Irandoust visited the TERI University campus to explore ideas for possible cooperation and joint work, and to tour its facilities. He also held talks with TERI Vice Chancellor Prof. Bhavik Bakshi, Registrar Dr. Rajiv Seth, and various deans and department heads.

AIT PROFESSOR PUBLISHES BOOK WITH NOBEL LAUREATE



Faculty member Prof. Ganesh P. Shivakoti co-authored a book with Nobel laureate Ms. Elinor Ostrom, winner of the 2009 Nobel Prize in Economics. The book, titled "Improving Irrigation in Asia," is based on a two-decade-long study on innovative interventions for sustained performance of irrigation systems. Co-authored by Prof. Elinor Ostrom; Mr. Wai Fung Lam of the University of Hong Kong; Mr. Prachanda Pradhan, Patron, Farmer Managed Irrigation Systems (FMIS) Promotion Trust, Nepal; and Prof. Ganesh P. Shivakoti; the book was published by Edward Elgar publishing. The book provides practical policy solutions,

making it a good resource for academics and scholars of development studies, resource management, and irrigation studies; apart from development specialists in international agencies, policymakers in governments and international donor agencies, Prof. Sivakoti said.

PARTNERSHIP WITH BIMTECH



AIT and Birla Institute of Management Technology (BIMTECH), India have signed a Memorandum of Understanding (MoU) to strengthen their partnership in the fields of student exchange, joint teaching activities and industry training. The MoU was signed by AIT President Prof. Said Irandoust and Director, BIMTECH, Dr. H Chaturvedi on 19 August 2011 in Delhi. The MoU was signed in the presence of the Ambassador of The Kingdom of Thailand to India, H.E. Mr. Pisan Manawapat, and H.E. Dr. Tej Bunnag, Former Foreign Minister of Thailand and Chairman, AIT Board of Trustees.

SRI LANKAN MINISTER VISITS AIT, ASSURES CONTINUOUS SUPPORT

Deputy Minister of Finance and Planning, Sri Lanka, H.E. Mr. Gitanjana Gunawardena, visited AIT on 16 August 2011, and assured the Government of Sri Lanka's continuous support. The Minister stated that the Government is keen that AIT should establish a campus in Sri Lanka under the AIT brand name. While interacting with the AIT President Prof. Said Irandoust, the minister remarked that the Government was actively considering the request for financial support to AIT. He added that the Government of Sri Lanka was working on the issue of allotment of land to AIT, and a formal agreement would emerge very soon. "The land allotment has been agreed in principle and the Honorable President of Sri Lanka is taking personal interest in this matter," the Minister added.



AIT AND THAILAND'S MWA JOINTLY LAUNCH PROFESSIONAL MASTER'S PROGRAM IN WATER TECHNOLOGY AND MANAGEMENT

AIT partnered with the Metropolitan Waterworks Authority (MWA) of Thailand in launching a Professional Master's Degree Program in Water Technology and Management (PM-WTM). A Memorandum of Agreement (MoA) for the new professional program was signed by Prof. Said Irandoust, President, AIT, and Mr. Charoen Passara, MWA Governor, on 17 August 2011 at the MWA headquarters in Bangkok. The program offered at AIT targets middle and senior level managers working at metropolitan and provincial water authorities who are interested in improving their technical knowledge in the field of water technology and management. Through the agreement, MWA will coordinate with the Royal Thai Government (RTG) and Thailand International Development Cooperation Agency (TICA) to secure at least 15 Professional Master's scholarships over a period of five years from 2011-2016.



AIT CELEBRATES ITS 52ND ANNIVERSARY



AIT's Fifty-second Anniversary celebration was marked by the Nanotechnology Portfolio Release, coupled with an expert talk by Prof. Prabuddha Ganguli, CEO, Vision-IPR, and ample fun and festivities at the Renaissance Hotel in Bangkok. "For over five decades, AIT has contributed towards the empowerment of Asia, and this will continue with renewed vigour," AIT President Prof. Said Irandoust announced to a gathering of ambassadors, academics, corporate leaders, media, and members of the AIT community including students, faculty, staff and alumni.

AFGHANISTAN DELEGATION EXPRESSES ADMIRATION OF AIT'S WORK



A delegation from Afghanistan expressed admiration of the work done by AIT stating that it was "very impressed with AIT's academic environment." The delegation also sought a framework agreement with AIT, and invited AIT representatives to visit Kabul to formalize an agreement.

Led by Mr. Rohullah Osmani, Director General, Programs Design and Management, Independent Administrative Reform and Civil Service Commission, Islamic Republic of Afghanistan, the delegation also included Mr. Vakhtang Svanidze, Deputy Country Director, United Nations Development Programme (UNDP) Afghanistan, and Mr. Sultan Hajiyev, Chief Capacity Development Advisor,

National Institution Building Project, UNDP Afghanistan. During their visit to AIT on 21 September 2011, Mr. Osmani remarked that AIT's contribution towards capacity building in Afghanistan was impressive and he sought a continuation of this work. Mr. Svanidze stated that UNDP would be very happy to facilitate AIT's work in Afghanistan.

AIT STUDENTS RECEIVE SCHOLARSHIP CERTIFICATES FROM DAAD

Twelve students of the AIT were felicitated by the Ambassador of Federal Republic of Germany to



Thailand, H.E. Mr. Rolf Schulze, at a function held at the Embassy of Germany on 15 September 2011. Recipients of the Germany Academic Exchange Service scholarships, the students are from Vietnam, Cambodia and Myanmar. The Ambassador stated that Germany has a keen interest in the ASEAN region, and the scientific cooperation between the ASEAN region and Germany has spanned more than over a century. "I express my sincere thanks and appreciation to AIT for ensuring an excellent academic environment for these students," the Ambassador said. Dr. Carolin Mülverstedt, Representative of Deutscher Akademischer

Austausch Dienst (DAAD), and Director of DAAD Information Center, and Ms. Annette Sévery, Counsellor, Press and Cultural Affairs also congratulated the students.

UNIVERSITI TEKNOLOGI MARA SIGNS MOU WITH AIT



Universiti Teknologi Mara (UiTM), Malaysia, signed a Memorandum of Understanding (MoU) and looks forward to sending students to AIT. The MoU, which was signed on 27 September 2011 by the Vice Chancellor of UiTM Dato' Prof Sahol Hamid Abu Bakar and AIT President Prof. Said Irandoust, seeks to foster cooperation between the two. Prof. Bakar stated that AIT can contribute towards enhancing the educational skills of UiTM's faculty. "About 40 per cent of UiTM's 10,000-strong faculty possess a doctorate degree, and we are seeking to upgrade the skills of our faculty," Prof. Bakar said. He remarked that UiTM proposes to send five Master's and five Doctoral students to AIT in the January 2012 session.

AIT VIETNAM EXPANDS PRESENCE IN HO CHI MINH CITY

AIT Vietnam (AIT-VN) expanded its facility in Ho Chi Minh City, Vietnam, to meet the rapidly growing demand for its higher learning professional programs and professional development short courses in the nation's largest city. The new office was unveiled on 31 August 2011 at a ceremony



graced by H.E. Dr. Tej Bunnag, Chairman of the Board of Trustees of AIT and former Minister of Foreign Affairs, Thailand, who officially opened the facility. The AIT chairman led a delegation from the headquarters of AIT in Bangkok, Thailand, which included Prof. Said Irandoust, AIT President, and Dr. Jonathan Shaw, Executive Director, AIT Extension. "The sheer growth in the number of programs we offer has required us to increase our number of classrooms and offices," AIT-VN director Dr. Amrit Bart said.

GLOBAL WATER PARTNERSHIP LAUDS AIT



The steering committee of the Global Water Partnership South-East Asia (GWP SEA) lauded the role of AIT and sought to strengthen its partnership with the Institute. The steering committee along with representatives of the Thai Water Partnership (TWP) visited AIT on 20 September 2011. Dr. Mercy Dikito Wachtmeister, Senior Network Officer, Global Water Partnership Organisation (GWPO), Stockholm, Sweden, stated that they were interested in the work being done at AIT in the water sector. "AIT has enhanced our networking capacity in this region," Dr. Mercy said. Dr. Le Vanh Minh, Chairman of GWP SEA, said his organization consists of two representatives from nine countries in South-East Asia.

PAKISTAN UNIVERSITY SIGNS AGREEMENT WITH AIT



Lahore-based University of Veterinary and Animal Sciences (UVAS) on 30 September 2011 signed a Memorandum of Understanding (MoU) with AIT to strengthen inter-institutional relationship. Signing the MoU, the Vice Chancellor of UVAS, Prof. Muhammad Nawaz, remarked that there is a tremendous potential for UVAS and AIT to work together. "The international atmosphere at AIT and the exposure that it provides to students is unique," he remarked. He stated that although UVAS was a university dedicated to veterinary and animal sciences, his brief visit to AIT convinced him that AIT has a lot to offer to UVAS. Ambassador of Pakistan to Thailand, H.E. Mr. SohailMahmood, also attended the ceremony.

AIT PRESIDENT IS A TRANSFORMATIONAL LEADER: PAKISTAN AMBASSADOR



Ambassador of Pakistan to Thailand, H.E. Mr. SohailMahmood, has described the President of the AIT as a "transformational leader" who had done tremendous work at the Institute. The Ambassador made these remarks on 30 September 2011, on the occasion of the signing of a Memorandum of Understanding (MoU) between AIT and the University of Veterinary and Animal Science (UVAS), Lahore, Pakistan. The Ambassador remarked that Prof. Irandoust has changed AIT, and had made an immense contribution in strengthening AIT-Pakistan relationship. "The AIT President has achieved so much in the field of education that he has changed AIT beyond measure," H.E. Mahmood said. The Pakistan Ambassador also appreciated AIT's commitment to Pakistan. Responding to Prof. Irandoust's sympathy at the outbreak of dengue fever in Lahore, the Ambassador stated that AIT has always been very sensitive to issues concerning Pakistan. "The AIT President was very quick to express his condolences following the floods in Pakistan last year, and he constituted a task force to help Pakistan," the Ambassador recalled.

IRD DELEGATION DEMONSTRATES INTEREST IN AIT



A delegation of the Institute de Recherche pour le Développement (IRD) has demonstrated interest in exploring a partnership with AIT. Led by Dr. Robert Arfi, Director of the Scientific Department, Living Resources and Environment, the delegation was comprised of IRD country representatives for Laos, Indonesia, Vietnam and the IRD Asia Regional Coordinator in Thailand.

Dr. Arfi stated that IRD could offer field training for AIT students, besides sharing of IRD laboratory facilities. IRD is interested in working with AIT on regional pilot projects, he added. The delegation also expressed its willingness to share the expertise of IRD specialists for possible engagement with AIT in both research and academic programs.

Dr. RegineLefait-Robin, IRD Representatives in Thailand and IRD Asia Regional Coordinator, introduced IRD's work in the region. Dr. Eric Benefice, IRD Representative in Laos, Dr. Jean-Paul Toutain, IRD Representative in Indonesia, and Dr.

Jean-Pascal Torretton, IRD Representative in Vietnam, also informed AIT about their respective country-related activities.

JOHN DEERE PARTNERS WITH AIT



Agricultural and construction equipment giant John Deere this month agreed to a tie up with AIT. A formal agreement was signed on 6 October 2011 for cooperation in farm machinery testing, and research and development. Signing the agreement, Mr. Sid Bardwell, Director, Strategic Marketing Region (I), stated that he was pleased to partner with AIT. “John Deere has been associated with universities for a long time, and we are happy to have a formal partnership with AIT,” he said. Mr. Bardwell added that a current global concern includes provision of food for all, which poses an enormous challenge. John Deere is working towards increasing agricultural productivity, while lessening the environmental impact of agricultural operations to help meet this goal, he added.

NOBEL LAUREATE STRESSES THE NEED FOR CARBON PRICING

Nobel laureate and Chairperson of the Intergovernmental Panel on Climate Change (IPCC), Prof. Rajendra Kumar Pachauri stressed the need for carbon pricing to tackle climate change. Prof. Pachauri also stated that IPCC’s Fifth Assessment (AR5) will be finalized by October 2014. The new report will be more detailed and shall include geoengineering options; susceptibility and equity; clouds, aerosols and its effects; besides a greater emphasis on socioeconomic implications of climate change.



He stated this during a lecture on the “The state of climate change” on 7 October 2011 delivered via video conferencing at AIT and a host of other institutes. The Nobel laureate stressed that the world needs an effective carbon price that can provide a signal to the market by which producers and consumers can move towards low carbon products and supply system. “A price on carbon is perhaps the most effective means by which we can bring about mitigation,” he stressed.

TEAM GROUP ‘TEAMS-UP’ WITH AIT FOR STUDENT INTERNSHIP PROGRAM

Thailand’s TEAM Group of Companies Co., Ltd. signed an agreement with AIT to launch a student internship program. The Memorandum of Agreement (MoA) signed on 7 October 2011 will enable qualified AIT students to work as TEAM Group student trainees.



Signing the MoA with AIT President Prof. Said Irandoust, the Chairman of the Board of TEAM Group, Dr. Prasert Patramai, said he was glad to initiate the internship program. He said internships at his company would provide AIT students with invaluable hands-on work experience, and could be a gateway to a real job in the future.

Dr. Prasert remarked that what differentiates AIT from other universities in Thailand is the international composition of its students. AIT’s internationality is an attractive feature for a company like TEAM Group, which works in numerous countries around the region, he said.

AIT DONATES TO FLOOD-IMPACTED COMMUNITIES



AIT donated 400 survival packs to flood-impacted communities situated near the AIT campus. Led by Prof. Worsak Kanok-Nukulchai, Chairman of AIT Recovery and Rebuilding Committee and Vice President for Resource Development, AIT organized the donation of 400 flood survival packages for two flood-impacted communities in Moo Ban Tah Klong and Soi Kochasarn. AIT reacted to the request of residents of Moo Ban Tah Klong and Soi Kochasarn who sought a reduction in pumping activities at AIT. AIT responded by reducing the pumping and dredged their canal. Prof. Worsak also met with the communities' leaders along with faculty members Dr. Noppadol Phien-wej, Dr. Vilas Nitivattananon, Dr. Thammarat Koottatep, Dr. Babel Mukand Singh, and Prof. Louis Hornyak.

UNIVERSITY OF BORÅS STUDENTS BEGIN FUND RAISING DRIVE FOR AIT



Students from University of Borås, Sweden, launched a fundraising drive to help rebuild the flood ravaged AIT. Recognizing that AIT is a partner Institute of the University of Borås, a group of students launched a drive asking everyone to contribute to AIT. The university highlighted the fundraising drive at their website under the headline "Students collect money for AIT." Written by Mr. Jonas Slättung, the article mentioned the partnership between AIT and the University of Borås. Links between the University of Borås and AIT go much beyond academic exchange programs. AIT President Prof. Said Irandoust was formerly the Rector of University of

Boras. The University of Borås is the coordinator of an EU international exchange project in South-East Asia, of which AIT is a partner. The University also runs a unique academic program in "Industrial Business Engineering", which is one of only a few international engineering programs in Sweden. Students in this program spend one semester at AIT.

CHUBU UNIVERSITY CONTRIBUTES ONE MILLION YEN FOR AIT'S RECOVERY

Complimenting AIT for its recovery operations after facing its worst ever disaster, Chubu University, Japan, contributed one million Yen towards disaster recovery efforts at AIT. In a letter to AIT President, Prof. Said Irandoust, Prof. Kiyoshi Honda of Chubu University, stated that he was very impressed with AIT's recovery operation. He stated that Prof. Iiyoshi Atsuo, Chairman of the Board of Chubu University; Prof. Amashita Okitsugu, University President; Prof. Inasaki Ichiro of the Chubu Institute of Advanced Studies; Prof. Fukui Hiromichi of the International GIS Center, and many others were aware of the conditions at AIT, and that they also extended their sympathy. Further, Chubu University has decided to contribute one million yen (around 390,000 Baht) to help recovery operations in AIT, the letter added.

AIT ALUMNI TERMED “NOSTRADAMUS OF BANGKOK” FLOODS



An alumnus of AIT, Dr. Seree Supratid, was labelled the “Nostradamus of Bangkok floods” by the English-language newspaper Bangkok Post. Dr. Seree emerged as a national celebrity, following his accurate flood warnings and predictions, and easy to understand and reliable information and technical advice. A feature article on Dr. Seree stated that “The Nostradamus of Bangkok floods has become a sort of celebrity with the result that people now wave to him, approach him and pose for photographs, and even seek his autograph when out inspecting the flood situation in their neighbourhoods.” Dr. Seree is an alumnus of AIT, and Chulalongkorn University, and is currently teaching disaster management at Rangsit University. He graduated from AIT with a Master’s in Engineering in Water Resource Engineering in 1987.

INUNDATED AIT HELPS THAILAND MAP FLOOD

AIT experts produced flood maps to help Thailand during the Great Thailand Flood of 2011. At AIT, which faced its greatest crisis ever when it was inundated with over 2 meters of water on 21 October 2011, work on flood and disaster management continued unabated despite the flood. The Disaster Charter on the floods in Thailand was activated on 17 October 2011 following a request by the Asia Disaster Reduction Center (ADRC) through Sentinel Asia, and AIT was appointed in-charge of project management. Dr. Masahiko Nagai, Associate Director, AIT’s Geo Informatics Center, was appointed project manager of the Disaster Charter. Scores of satellite maps and value-added products were prepared on the Thailand floods. These satellite maps were used by organizations like Geo-Informatics and Space Technology Development (GISTDA), Department of Disaster Prevention and Mitigation (DDPM), and UNESCAP.



AIT FACULTY FEATURED IN SPECIAL 'COP' NEWSLETTER

Prof. Sivanappan Kumar of AIT’s School of Environment, Energy and Resources (SERD) of AIT was featured in the special 'COP' edition newsletter of the Technology Needs Assessment (TNA) program. TNA is a capacity building project to enable participating countries to identify their technology needs for mitigation and adaptation. The UNEP Risoe Centre (URC), Denmark, engaged the Centre of Excellence for Sustainable Development in the context of Climate Change (SDCC), AIT, for implementing TNA in developing Asian countries.



THAILAND DEPUTY PM YONGYUTH AND JUSTICE MINISTER PRACHAPROMNOK EXPRESS SUPPORT FOR AIT



Thailand's Deputy Prime Minister and Minister of Interior Mr. Yongyuth Wichaidit expressed his full support for flood-stricken AIT, as it has benefited higher education and research in Thailand. The deputy prime minister made the remark on 9 December 2011 during a courtesy visit from AIT President Prof. Said Irandoust to inform the government about the devastation to AIT caused by the flood. Briefing the deputy PM on AIT's post-flood renovation efforts, President Irandoust said AIT was working hard to recover from the disaster and to improve its facilities and infrastructure. Recognizing its importance to the country, the deputy prime minister said he was happy that an internationally-known institution of higher learning like AIT had selected Thailand as its home. He also expressed a very positive view of AIT, mentioning that degrees granted by AIT are considered by the Thailand Civil Service Commission (CSC) to be equivalent to those issued from top universities overseas.

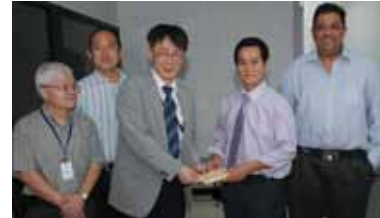
JAPAN'S U OF YAMANASHI DONATES 1M YEN FOR AIT FLOOD RECOVERY



Japan's University of Yamanashi came to the aid of flood-stricken AIT by donating 1-million Yen and pledging to support the research activities of AIT students in need of facilities. The assistance was extended on 2 December 2011 by

Prof. Futaba Kazama, who led a delegation to AIT that included Dr. Kei Nishida, Associate Professor, and Dr. Takeshi Nakamura, Assistant Professor. The Japanese visitors were welcomed to AIT's Temporary Office at Chulalongkorn University by H.E. Dr. Tej Bunnag, Chairman of the Board of Trustees, AIT, and Prof. Said Irandoust, President, AIT. Prof. Kazama handed over the official financial donation to the AIT Chairman. "We will treasure it and use it well," Dr. Tej remarked, as he thanked the delegation on behalf of the Institute.

AITAA JAPAN CHAPTER HANDS OVER 2.6 MIL YEN IN ASSISTANCE



The Japan Chapter of the AIT Alumni Association came to aid its alma mater with a substantial donation to support AIT's post-flood recovery work. Mr. Yoshiaki Shimura, President of AITAA Japan Chapter, handed over 2,660,000 Japanese Yen and 10,000 Baht to Prof. Worsak Kanok-Nukulchai, Vice President for Resource Development, while visiting the AIT Office in Bangkok on 7 December 2011. "As we enjoyed our life in the AIT campus as a student or faculty member, we wished to do something for AIT's cleaning and rehabilitation," Mr. Shimura explained. Welcoming Mr. Shimura to AIT on behalf of AIT President Prof. Said Irandoust, Prof. Worsak expressed his deep gratitude to the AITAA Japan Chapter and all of AIT's friends in Japan for its considerable generosity and support at this time of need. The AITAA Japan Chapter donation was the result of donations from Japanese alumni, Japanese former faculty members and non-Japanese AIT community members residing in Japan, Mr. Shimura said.

AIT EXTENSION ORGANIZES DENGUE FEVER CONTROL PROGRAM FOR PAKISTAN



A first-of-its-kind Dengue Epidemic Prevention, Control and Management Program (DEPCAM) organized by AIT Extension for 117 participants from Pakistan’s Punjab concluded at Bangkok on 23 December 2011. Speaking at the function, the Chef-de-Mission, Mr. Sajjad Saleem Hotiana, Secretary, Environment Protection Department (EPD), Government of Pakistan, thanked AIT for organizing a “remarkable” program encompassing not just various dimensions and elements of dengue control, but also organizing it at various locations along with multiple partners. Dr. Jonathan Shaw, Director, AIT Extension, stated that organizing the program amidst the flood situation in Thailand was nothing short of a miracle. The program witnessed participation from 47 doctors, 19 nurses, 5 epidemiologists, 4 technicians, and 11 municipal officers. They were joined by 19 policy makers, including parliamentarians; permanent secretaries of health, environment and local government; director general of health services; principals and heads of teaching hospitals, journalists and representatives from NGOs.

AIT SEMINAR PRESENTS LESSONS FROM THE 2011 THAILAND FLOOD

Experts from various sectors suggested remedial measures and emphasized the need to learn lessons from the Thailand flood. At a seminar on "Lessons learned from the 2011 Thailand Flood Disaster and Future Directions for Flood Prevention and Mitigation," organized AIT and ASEAN Affairs, in association with the Center for Advanced Infrastructure Technology (CAIT), University of Mississippi, panelists stressed the need for knowledge sharing, capacity building, and preparedness.



Prof. Said Irandoust, President, AIT, remarked that the lessons are relevant not only for Thailand, but also for other countries in Asia and beyond. Narrating the developments leading to the flood at AIT, the President remarked that the Institute tried to utilize its own knowledge base, besides its internal and external expertise, to thwart the threat of the flood. "However the forces of nature proved to be too strong," he added. Mr. Swarup Roy, founder and CEO of ASEAN Affairs, Dr. Pornsak Supparatarn, Technical Advisor (Flood Control Expert) TEAM Group of Company, Dr. Masahiko Nagai, Associate Director, Geoinformatic Center (GIC), AIT, and Dr. Waheed Uddin, Professor of Civil Engineering and Director, CAIT, University of Mississippi, USA, and AIT alumnus (1975) participated in the seminar.

AIT LEADS NEW RESOURCE RECOVERY PROJECT IN SOUTH-EAST ASIA

A new waste recovery project involving four countries in South-East Asia has been launched with the Asian Institute of Technology assuming the role of the lead partner. The four countries – Thailand, Lao PDR, Cambodia and Vietnam – all from the Mekong region, are engaged in an international partnership to work towards zero waste, zero landfill and reduction of greenhouse gas emissions. A key partner is the University of Borås, Sweden, which is practicing the technology of resource recovery and waste refining in the Borås city, and seeks to transfer the knowledge, technology and technological know-how to the Mekong region through this project. “The project aims at capacity development, besides conducting a feasibility study and a pilot project,” said Dr. Muhammad Abu Yusuf, Project Coordinator of the Mekong Region Waste Refinery-International Partnership Project.

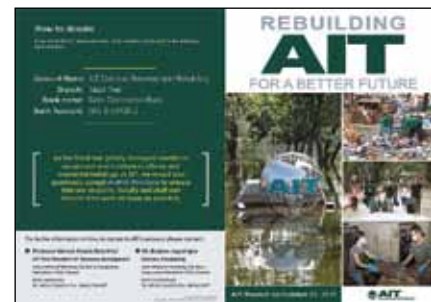


FUNDRAISING OFFICE

AIT witnessed the grand inauguration of the first ever fundraising campaign in September 2010 during AIT's 51st anniversary presided over by Her Royal Highness Princess Maha Chakri Sirindhorn. After the induction, in the year 2011, under the leadership of President Professor Said Irandoust, Vice President for Resource Development Professor Worsak Kanok-Nukulchai and Director Fundraising Mr. Sanjeev Jayasinghe, the fundraising office continued to embark on increasing the endowment fund and specific contributions. This was done by strategically approaching all constituents, such as alumni, current and former faculty and staff, friends of AIT, and partners. The campaign raised total of 19.8 million Thai Baht as of 31 December 2011. Donations came from 32 donors and are intended for different purposes, such as endowed funds for student scholarships, endowed funds for visiting scholars, buying equipment, and donor specific requests.

In 2011, the Campaign focus continued to be internal, under a silent phase, with a view of going public once considerable internal stakeholders' momentum is achieved. At a later phase, the campaign will focus on philanthropists, the corporate/private sectors and foundations.

After the devastating 2011 floods in Thailand, AIT stakeholders once again came forward to meet the immediate requirements of the AIT community through the establishment of the Flood Relief Fund chaired by Prof. Worsak Kanok-Nukulchai. This was a joint effort of the Fundraising Office and the Alumni Affairs Office. Donors donated for several purposes, such as supporting students, cleansing and rehabilitation



of the AIT main campus, rebuilding laboratories, and renovating the AIT library. The Fundraising Office assisted with cleansing and rehabilitation work by raising 6.3 million Thai Baht from 78 donors, including individuals and groups, out of the total 9.1 million Thai Baht.

In the year 2009, the Fundraising Office initiated and coordinated a memorandum of agreement (MOA) on a 2+2 collaborative international bachelor's degree program between the South Asian Institute of Technology and Medicine (SAITM), Sri Lanka, and the School of Engineering and Technology, AIT. In the year 2011, a total of 49 students were transferred from SAITM to AIT to complete their final two years of the undergraduate degree program. The tuition income generated in their first year at AIT in 2011 was 9.1 million Thai Baht.

The Fundraising Office initiated a Fundraising Management System (FRMS), which stores constituents' information, especially detailed information of donors. Through its easy login system, the web-based system generates different types of summary and customized reports as required by the users. It also lists constituents group-wise and contains intelligent search mechanisms.

AIT ALUMNI OFFICE (AAO)

THIS was the second year of AIT Alumni Office operations, after its establishment in June 2010. With minimal staffing, the office increased communications with AIT alumni around the world by:

- Having a mailing list of alumni residing in each of the 27 AIT Alumni Association (AITAA) Chapters
- Having mailing lists of some key countries/territories without an AITAA Chapter
- Having mailing lists of alumni by School and some Fields of Study, based on the need
- Sending regular reports through the AIT President's Weekly Letter and AIT monthly e-newsletter
- Maintaining an informative and attractive website to serve the alumni as well as to encourage the alumni to support AIT



- Regularly updating on the AAO website on alumni movements around the world and on awards and promotions

With the support of other offices in AIT, the AAO introduced and implemented an Exit Survey of graduating students to gain immediate feedback about AIT education from soon-to-be-alumni. AAO also introduced a system which requires all graduating students to provide their contact address and some basic information before leaving AIT.

The Head of the AAO attended the 40th Governing Board Meeting or GBM of the AITAA from 14-17 October 2011 in Genting, Malaysia along with presidents and representatives of 18 National Chapters and the Alumni Mother Chapter.

When the main campus was inundated by a flood in October, the AAO coordinated with the AITAA-Thailand Chapter and its alumni membership to secure free of charge office space to relocate AIT operations, including all administrative and supporting units, and schools.

During the flood in 2011 the office served as a coordinating unit for donations to support AIT and its students affected by the disaster. By 30 December 2011, just 2 months after the flood, the AAO was able to receive nearly 5.2 million baht to the AIT Flood Emergency Fund.



AN INUNDATION THAT COULD NOT SUBMERGE THE SPIRIT

AIT'S EXPERIENCE IN THE GREAT 2011 THAILAND FLOOD

BY ASHISH OM SITOULA

ON the evening of 21 October 2011, the Asian Institute of Technology (AIT) campus, located in Khlong Luang, Pathumthani province – directly in the route of the Chao Phraya flood basin – succumbed to one of Thailand's worst ever natural disasters as it was submerged under 2-meters of floodwaters. Host to over 2300 students, with over 50% students from 42 different countries outside Thailand, mainly from South Asia, South-East Asia, Africa and Europe, the magnitude of the catastrophe to AIT was incalculable. In spite of the various structural and non-structural safe-guard measures applied by AIT, the force of nature was so overwhelming that it completely inundated AIT as the wall of water relentlessly sought to find its way home to the Gulf of Thailand.

As the possibility of flood became a realistic possibility the president of AIT, Professor Said Irandoust, called for an AIT Management Team meeting on 6

October 2011 (the meeting also included flood and water experts and geo-spatial and structural specialists) to discuss the threats and the protection measures that AIT needed to implement. Based on the recommendations from the meeting, activities to strengthen the flood embankment and dykes surrounding AIT were initiated. As the situation grew worse, a Flood Emergency Operations Group (AIT FEOG) was subsequently formed on 11 October 2011. The institute was closed from 14 October onward owing to the uncertainty and confusion arising out of the flood possibility.

In the absence of reliable official information on the volume of water travelling from the north, AIT was unable to predict the danger related to the floods. Drawing from experience – which saw AIT unscathed while neighboring areas had been completely inundated during prior floods of 1995 and 2005 – many long-time residents and employees were confident that the campus would remain dry. However, owing to conflicting reports from official



government sources and media, and the reality that one industrial estate after another was being submerged in the north, there was, indeed, significant confusion with the AIT community on the gravity of the situation and levels of protection actually required.

The AIT FEOG was meeting twice everyday to observe the situation and provide the AIT community with the best estimate of the unraveling conditions. A tri-institute body formed between AIT, the National Science and Technology Development Agency (NSTDA) and Thammasat University was also meeting on a daily basis to discuss the emergency and consequently built a combined flood barrier.

As per the recommendations of the tri-institute body, AIT raised its flood embankment and earthen dykes to a height of 4 meters above mean sea level. In the meantime, the water levels of all reservoirs and canals inside and outside AIT were significantly reduced. Emergency procedures were communicated to all residents within the community on

the protective measures required and the course of action in case of both flash floods or gradual accumulation of water. 17 buses were also on stand-by to evacuate all residents of AIT in case of emergency, with strategic relocation and collection points identified. Safety coordinators and volunteers from amongst the staff and students of AIT were assigned and trained in relocation and emergency evacuation procedures.

In order to release the water pressure that was accumulating along the AIT dykes, a weir was created on the south side of AIT to allow water to accumulate within the internal canals and was subsequently pumped out to a canal across the Phaholyothin Road. During the night of October 19-20, a section of dyke along the Phaholyothin Road, outside the AIT Golf Course was breached. The broken portion of the dyke was fixed with a steel and bamboo cage filled with sandbags. On the same day, 170 personnel from the Engineering Corps of the Royal Thai Army arrived on campus to assist the AIT team in the fight against the flood.



However, subsequent breaches to the dyke on the northern perimeter during the evening of October 20 rendered it impossible to control the water beyond the flood barriers and led to gradual accumulation of water inside the AIT compound. On October 21, when it was evident that AIT would be significantly inundated, all AIT residents were evacuated to institute-identified shelters and embassies of respective nationalities, without any injury or casualty. By 22.00 hours, AIT was already under 1-meter of water, which increased to 2-meters by early morning of October 22. Two days later, neighboring Thammasat University and NSTDA were also inundated. All ground levels of the institute or half of AIT's mostly two-storey



infrastructure was completely submerged under more than 2 meters of water and the Institute consequently closed for over a month up to 31 November 2011. Most of the foreign students were repatriated to their countries.

In line with recommendations from higher education institutions and organizations that had experienced similar flooding in the past at areas around the world, the AIT Administration recommenced its business the very next day after the disaster on 22 October 2011 from the residence of the President of AIT. Within a week, temporary offices were set up in two locations in Bangkok. After significant discussion, and with approval of the Board of Trustees, a decision was reached to operate the

academic component of AIT in temporary locations until the period that mother campus could be drained and necessary rebuilding completed. Locations around Chonburi, NakhonNayok, Phetchaburi, PrachuapKiriKhan, Thailand, were scouted, and finally it was agreed that AIT would relocate to three institutes in the Cha-am and HuaHin areas of the country, namely, Silpakorn University, Stamford International University and Rajabhat University. These universities provided their space to AIT free-of-cost barring utilities and incidentals. Owing to the likelihood of Bangkok itself being inundated, considerations for setting up temporary academic locations inside Bangkok were deemed not pragmatic, at that point.



From 25 November 2011 onwards, AIT started receiving back its course-taking students and all academic operations commenced from 6 December 2011 at the temporary locations in Cha-am/HuaHin. AIT coordinated with many partner institutions all around the world to relocate its research students and many of these students were subsequently housed at partner institutions in Thailand, Japan, Taiwan, France, Australia, India, USA, Malaysia and China, among others.

The 116th AIT Graduation Ceremony, which was supposed to be organized on 21 December 2011, took place on 21 January 2012, with only a month's delay, in spite of the institute being closed for over seven weeks.

On 3 December 2011, all water at the AIT campus was finally drained out. In addition to the lower geo-spatial position of AIT in comparison to immediate neighboring areas, the lack of avenues to drain water also hindered AIT from draining the flood waters earlier. Subsequently, the AIT administration set up four committees to clean, rebuild and rehabilitate AIT as soon as possible. Academic programs in the temporary locations and relocation of research students to partner institutions was ongoing throughout December 2011.

AIT was able to minimize opportunity cost to students and its faculty and staff, and continue its major operations, without delay, through partial and temporary relocation and subsequent reorganization within its mother campus, even though a large portion of the infrastructure was yet to be rebuilt. AIT's aging infrastructure, which prior to the floods was in need of significant upgrading, was severely devastated by the floods. Restarting the resource-strapped institute was regarded to be impossible.

However, the floodwater was only able to submerge the infrastructure of AIT. But the spirit of AIT was undaunted and the courage of AIT people rendered it possible to continue, even as such a significant natural disaster crippled Thailand. Flood or no-flood, the spirit of AIT continues to rise in its dedication to contributing to the sustainable development of Asia and beyond.





AWARDS AND RECOGNITION

AIT FACULTY RECOGNITION

Dr. Oanh Thi Kim Nguyen, Professor at AIT's School of Environment, Resources and Development (SERD), was hailed "Air Quality Hero" at the Better Air Quality (BAQ) Conference held at Singapore.

Professor Oanh Thi Kim Nguyen from AIT's School of Environment, Resources and Development (SERD), has been awarded the plaque "Air Quality Hero" at the Better Air Quality (BAQ) Conference held at Singapore in January 2011. Professor Oanh was felicitated by the organizers for "consistent best presentation, most presentations and most number of abstracts submitted for BAQ over the years."

Prof. Mario Tabucanon honored with emeritus professorship by the Asian Institute of Technology (AIT)

Prof. Mario Tabucanon was honored with emeritus professorship by the Asian Institute of Technology (AIT). The conferment of this award was approved by the Board of Trustees of AIT at its meeting on 20 January 2011, while the formal conferment will be made during the May 2011 graduation ceremony.

Prof. Tabucanon served AIT as Acting President between January-June 2005. He has held senior positions at AIT, including that of Provost, Vice President, Dean and Chairman, apart from serving as a member of the Board of Trustees (1998-2001, 2005). He is currently Visiting Professor, Institute of Advanced Studies, United Nations University, Japan. Prof. Tabucanon earned his doctorate of Engineering from AIT in Industrial Engineering and Management (1977) and Master's in Systems Engineering and Management field of study (1974). The conferment of honor of Professor Emeritus was made in recognition of Prof. Tabucanon's continuous distinguished service at AIT, as well as his outstanding

international professional status and significant academic contributions to the Institute through teaching, publications and professional work.

Prof. Ram Manohar Shrestha conferred as Emeritus Professor by the Asian Institute of Technology (AIT).

Prof. Ram Manohar Shrestha was honored with emeritus professorship at the Asian Institute of Technology (AIT). The conferment of this award was approved by the Board of Trustees of AIT at its meeting on 20 January 2011. The formal conferment of the Professor Emeritus award will be made during the May 2011 graduation ceremony.

Prof. Shrestha obtained his Doctor of Engineering in Resource Economics and Management (1986) and his Master of Engineering in Industrial Engineering and Management (1982) from AIT, after which he served AIT in various positions. Prof. Shrestha has also served as Chairman, Academic Senate, AIT, from August 2007 to September 2009.

The conferment of honor of Emeritus Professor was made in recognition of Prof. Shrestha's continuous distinguished service at AIT, as well as his outstanding international professional status and significant academic contributions to the Institute through teaching, publications and professional work.

AIT Professor Emeritus Professor Ram M. Shrestha was also invited to serve as an Associate Editor of the American Society of Civil Engineers (ASCE) Journal of Energy Engineering. The journal is one of the major journals of the ASCE. Professor Shrestha has been serving on the Journal's Editorial Board for several years.

AIT Professor publishes book with Nobel laureate

AIT faculty member from the School of Environment, Development and Resources (SERD) Prof. Ganesh P. Shivakoti, co-authored a book with Nobel laureate Professor. Elinor Ostrom, winner of the 2009 Nobel Prize in Economics. The book, titled “Improving Irrigation in Asia,” is based on a two-decade long study on innovative interventions for sustained performance of irrigation systems has been published by Edward Elgar publishing. This is not the first publication of Prof. Shivakoti with Prof. Ostrom. Prof. Shivakoti also coauthored “Asian Irrigation in Transition – Responding to Challenges” with Prof. Ostrom, which was published by Sage Publication in 2005. During his post doctorate in 1992, Prof. Shivakoti participated in a workshop in “Political Theory and Political Analysis” at Indiana University, where Prof. Ostrom was the co director. This resulted in a monogram published jointly by Prof. Shivakoti and Prof. Ostrom titled “Institutions, Incentives, and Irrigation in Nepal”. They also have two other joint publications, apart from a book by Prof. Shivakoti, where Prof. Ostrom has contributed a chapter.

Dr. Teerapat Sanguankotchakorn, Associate Professor, SET/TC, was appointed as a Member of the National Digital Terrestrial Policy Commission, by the Prime Minister of Thailand.

The Commission will study and prepare plans and policies regarding the migration of the current National Analogue Terrestrial Television to become a Digital Terrestrial Television. In connection to this assignment, Dr. Teerapat, was also elected as a Member of the MCOT’s Board of Directors. MCOT is the largest broadcaster and media organization in Thailand, whose major shareholder is the Ministry of Finance.

Professor Sudip K. Rakshit, AIT Vice President for Research, authors one of the top 1% most highly cited papers in his field worldwide.

Professor Sudip K. Rakshit, AIT Vice President for Research was congratulated by the EKOS Research on behalf of the Canadian Council of Academies (CCA) of the good news that according to a 2011 analysis which they conducted, he is an author of one of the top 1% most highly cited papers in his field worldwide. The communication was in relation to an invitation which Professor Rakshit received from the Council of Canadian Academies and EKOS requesting his opinion on a survey which they are conducting on the geographical distribution of research strengths in his field of study.

Professor Dennes T. Bergado, was invited as one of the Guest Speakers for a Seminar organized jointly by the National University of Singapore and the Geotechnical Society of Singapore (GEOSS)

Professor Dennes T. Bergado, has been invited as one of the Guest Speakers for a Seminar organized jointly by the National University of Singapore and the Geotechnical Society of Singapore (GEOSS) scheduled on 13 May 2011. The other speaker is Prof. Pedro Pinto of Portugal who is the immediate Past President of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). Professor Bergado is the Director of the Asian Centre for Soil Improvement and Geosynthetics at AIT currently serves as the Secretary-General of the Southeast Asian Geotechnical Society (SEAGS) since 2000.

Dr. Thammarat Koottatep, faculty in the School of Environment, Resources & Development (SERD) was promoted from the rank of Assistant Professor to Associate Professor

Dr. Thammarat Koottatep of AIT’s School of Environment, Resources and Development (SERD) was promoted to the rank of Associate Professor. Dr. Thammarat had joined AIT as a faculty member in Environmental Engineering and

Management (EEM) field of study in 2002, as a seconded-faculty from the National Center of Competence in Research (NCCR) North-South Program, Switzerland. His research areas are decentralized waste and wastewater treatment systems, eco-engineering technology for waste and wastewater treatment and management, and environmental health and sanitation.

Professor Ashim Das Gupta conferred with the title of Emeritus

Professor Ashim Das Gupta has been conferred with the title of Emeritus Professor. This title was conferred on him by the AIT President, Prof. Said Irandoust on 26 May 2011 on the occasion of AIT's 115th Graduation.

Prof. Das Gupta earned both his Doctor of Engineering in Water Resources Development (1976) and his Master's degree in Applied Hydraulics (1973) from AIT. He graduated from Assam Engineering College (India) with a Bachelor of Engineering degree in 1967. Professor Das Gupta joined AIT as an Assistant Research Professor in the Division of Water Resources Engineering in 1976, and was promoted to the rank of Associate Professor in 1981. He was promoted to the position of Professor in 1988. He served AIT for three decades. Prof. Das Gupta was appointed

by UNESCO in 1999 to chair the Task Force that prepared the Science Plan for the sixth phase (2002-2007) of the International Hydrological Programme of UNESCO. He was also invited as part of the Advisory Committee (2007-2010) of the United Nations-Water Decade Programmes on capacity development. In 2004, he was conferred the 'International Award' by the Japan Society of Hydrology and Water Resources.

Dr. Sununta Siengthai was awarded best paper in Management track by the World Business Institute, Australia.

Dr. Sununta worked together with her former advisee Ms. Wannee Sae Pung and current doctoral student Mr. D.S. Sukirno for the winning paper entitled "The Study of Job Satisfaction and Organizational Citizenship Behavior (OCB) in the Retail Industry in Indonesia"

Professor Kanchana Kanchanasut, Director of AIT's Internet Education and Research Laboratory (intERLab) was appointed as a Committee Member of the Development of Thailand Research and Education Network by the Ministry of Education, Royal Thai Government.

AIT STUDENT RECOGNITION

Mr. Junaid Alam Memon, received the rare distinction of his research paper having featured on the cover page of the journal Environmental Management published by Springer "Irrigation, Natural Resources and Community Occupational Quality in Pakistan".

The article is coauthored by Mr. Memon and his supervisor Prof. Gopal Bahadur Thapa of AIT's School of Environment, Resources and Development (SERD)

The February 2011 issue of Environmental Management, which is a reputed journal published by Springer for decision makers, scientists and

environmental assessors, will feature the article "Irrigation, Natural Resources and Community Occupational Quality in Pakistan" on its cover. Mr. Memon's photograph of the Indus River basin has also been selected as the cover page picture. The article coauthored by Mr. Memon and his supervisor Prof. Gopal Bahadur Thapa of AIT's, School of Environment, Resources and Development (SERD), examines the impact of the irrigation system on both the natural resources as well as society in the deltaic part of the Indus river in Pakistan. The paper analyzes the ecological and natural resource dynamics and its impact on the structure and quality of occupations of people. "There is an overwhelming occupational shift from animal herding and

paddy farming to marine fishery as the delta was transformed from a riverine-dominated to a marine-dominated ecosystem following the development of an elaborate irrigation system, “ Mr. Memon remarks. A significant change in occupational status is also visible with the Jat clans now maintaining camel herds mainly as a status symbol. Paddy farmers who enjoyed higher social status earlier no longer enjoy their previous exalted position. However the impact of the changing hydrological regimes on the natural resources has varied in both intensity and direction when it is related to different occupational groups, he adds. Mr. Memon is a doctoral student at AIT and he is working on the “Effects of Differential Mangrove Managements Systems on the Status of Mangroves and Local People's Livelihood in Indus Delta Region of Pakistan.”

🌐 A doctoral student of Asian Institute of Technology (AIT), Ms. Warisa Wisittipanich, has bagged the best student paper award at the “Seventh International Conference on Intelligent Manufacturing and Logistics Systems”,

The conference was held at Yuan-Ze University, Zhong-Li in Chinese Taipei for the paper titled “A Pareto-based Participle Swan Optimization for Multi-objective Job Shop Scheduling Problems”, which was co-authored with her advisor, Prof. Voratas Kachitvichyanukul of AIT's School of Engineering and Technology (SET)

Ms. Warisa Wisittipanich, who is a doctoral student in the Industrial and Manufacturing Engineering (IME) field of study, School of Engineering and Technology (SET) bagged the best student paper award at the “Seventh International Conference on Intelligent Manufacturing and Logistics Systems”, which was held at Yuan-Ze University, Zhong-Li in Chinese Taipei recently. The paper titled “A Pareto-based Participle Swan Optimization for Multi-objective Job Shop Scheduling Problems” was co-authored with her advisor Dr. Voratas Kachitvichyanukul from SET. At the same conference, another AIT alumnus from the IME field of study, Dr. Rapeepan Pitakaso, also won a prize for young researchers. His paper was titled “A combination of a simple sweep heuristic and exact method to

solve vehicle routing problem under uncertainty of demand and service time interval.”

🌐 Mr. M. S. Sarfraz (Malik) Ph.D. student funded by the Higher Education Commission (HEC)-Pakistan in the Remote Sensing and GIS Field of Study won the 3rd prize in the thesis competition held at United Nations University (UNU) headquarters, Tokyo Japan.

Mr. Sarfraz's advisor is Dr. Nitin K. Tripathi. Under Prosper.Net Research Program 16 Ph.D. students from 10 universities (AIT, The University of Stellenbosch South Africa, University of Cape Town South Africa, Chinese Academy of Science China, Tongji University China, RMIT Australia, TERI University India, University of South Pacific Fiji, Hosei University Japan, Nagoya University Japan and University of Tokyo Japan) participated in the competition. The competition was held in three different rounds (first, semifinal and final) and judges from different universities respectively. They judged the communication skills, involvement to audience and research importance for society. The final round was held at UNU headquarters and more than six undergraduate universities (Japan, Indonesia, India) students attended the forum and votes were cast by all the participants.

A review article coauthored by an AIT doctoral student, Mr. Sunandan Baruah, and AIT's Vice President for Academic Affairs, Professor Joydeep Dutta, has been featured in leading technology news portals including Research SEA and TMCNet, apart from popular news portals like Yahoo News and PRWeb.


🌐 Mr. Sunandan Baruah, Nano student's article attracts media attention

A review article coauthored by an AIT doctoral student, Mr. Sunandan Baruah, and AIT's Vice President for Academic Affairs, Prof Joydeep Dutta, has been featured in leading technology news portals including Research SEA and TMCNet, apart from popular news portals like Yahoo News and PRWeb.

Based on a review article published in the March

2011 issue of the journal 'Science and Technology of Advanced Materials' published by Institute of Physics (UK), the article entitled "Zinc stannate nanostructures: hydrothermal synthesis" has formed the basis of various news items.

An article entitled 'Fabrication and Analysis of Tapered Tip Silicon Microneedles for MEMS based Drug Delivery System', co-authored by Mr. Muhammad Waseem Ashraf, a Higher Education Commission of Pakistan Scholar who is currently pursuing his Ph.D. at AIT in the Microelectronics field of study, has been selected among the 10 Best Articles published in the Sensors & Transducers Journal which is published by the International Frequency Sensor Association (IFSA) for 2010.

 **Mr. Muhammad Waseem Ashraf was selected among the 10 Best Articles published in the Sensors & Transducers Journal**

An article entitled 'Fabrication and Analysis of Tapered Tip Silicon Microneedles for MEMS based Drug Delivery System', Vol. 122, Issue 11, November 2010, co-authored by Mr. Muhammad Waseem Ashraf, a Higher Education Commission of Pakistan Scholar who is currently pursuing his Ph.D. at AIT in the Microelectronics field of study, has been selected among the 10 Best Articles published in the Sensors & Transducers Journal (ISSN 1726-5479) Journal, which is published by the International Frequency Sensor Association (IFSA) for 2010. Mr. Ashraf co-authored the article with his Advisor Dr. Nitin Afzulpurkar, Dean, School of Engineering and Technology (SET), and some other colleagues.


 **Twelve AIT students were felicitated by the Ambassador of Federal Republic of Germany to Thailand, H.E. Mr. Rolf Schulze, at a function held at the Embassy of Germany. Recipients of the Germany Academic Exchange Service scholarships are from Vietnam, Cambodia and Myanmar.**

AIT scholarship recipients include Su Su San (studying Regional and Rural Development Planning (RRDP)); Chu Phuong Nhung, Moh Moh

Thant Zin, Nguyen Duc Minh, Nguyen Huu Thuy, Nguyen Minh Vuong, Tran Thanh Thu, Phuc Hong Nguyen and Vu Manh Hoang from Environmental Engineering and Management (EEM); Pen Bovathana and Sar Dimdaline from Gender and Development Studies (GDS); Dinh Minh Hieu from Agri Business Management (ABM). Six of these students received the DAAD scholarship this year, while six of them are in the second year of AIT's Master's program.

The Ambassador stated that Germany has a keen interest in the ASEAN region, and the scientific cooperation between the ASEAN region and Germany has spanned for over a century. The Ambassador expressed his sincere thanks and appreciation to AIT for ensuring an excellent academic environment for these students". Dr. Anil Kumar Anal, Associate Dean for Research and Outreach, School of Environment, Resources and Development (SERD), thanked the Ambassador its support to AIT. He also extended an invitation to the Ambassador to visit AIT, which was accepted by the Ambassador Dr. Carolin Mülverstedt, Representative of Deutscher Akademischer Austausch Dienst (DAAD), and Director of DAAD Information Center, welcomed queries from scholarship holders and asked them to continue their interaction with DAAD. Ms. Annette Sévery, Counsellor, Press and Cultural Affairs, Embassy of Germany handed over the scholarship certificates to the AIT students.

AIT scholarship recipients include Su Su San (studying Regional and Rural Development Planning (RRDP)); Chu Phuong Nhung, Moh Moh Thant Zin, Nguyen Duc Minh, Nguyen Huu Thuy, Nguyen Minh Vuong, Tran Thanh Thu, Phuc Hong Nguyen and Vu Manh Hoang from Environmental Engineering and Management (EEM); Pen Bovathana and Sar Dimdaline from Gender and Development Studies (GDS); Dinh Minh Hieu from Agri Business Management (ABM). Six of these students received the DAAD scholarship this year, while six of them are in the second year of AIT's Master's program.


 **Doctoral student, Ms Rizwana Subhani receives scholarship from Prince Albert II of Monaco Foundation and the Intergovernmental Panel on Climate Change (IPCC).**


Ms. Subhani has been invited by the Foundation to attend the 4th Award Ceremony of the Prince Albert II of Monaco Foundation to be held in Monaco on 7 October 2011, during which she will receive her official certificate. The Foundation will provide her airline ticket and hotel accommodation for her attendance to this prestigious event.

AIT faculty colleague Dr. Babette Resurreccion shared the good news that one of her doctoral students Ms Rizwana Subhani has been award-

ed a scholarship for her doctoral research work in accordance with the partnership between the Prince Albert II of Monaco Foundation and the Intergovernmental Panel on Climate Change (IPCC). Ms. Subhani has been invited by the Foundation to attend the 4th Award Ceremony of the Prince Albert II of Monaco Foundation to be held in Monaco on 7 October 2011, during which she will receive her official certificate. The Foundation will provide her airline ticket and hotel accommodation for her attendance to this prestigious event.

DISTINGUISHED AIT ALUMNI AND THEIR ACHIEVEMENTS

 **Mr. Chaovalit Ekabut (M.Eng. Industrial Engineering and Management 1982), President, AIT Alumni Association (AITAA)-Mother Chapter was appointed as Vice President, Finance and Investment & CFO of the Siam Cement Public Co. Ltd. and President, Cementsai Holding Co. Ltd.**

 **Alumna and AIT adviser selected as Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2011.**

A paper co-authored by Dr. Supattana Nirukkanaporn, an Energy field of study graduate, and her adviser Professor S. Kumar, coordinator, Energy field of study, School of Environment, Resources and Development (SERD) was chosen as the Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2011.

The paper "A transition to bilateral trading ESI - effect to generation dispatched cost an analysis of the Thai power system" was published in International Journal of Energy Sector Management, Volume 4, Issue 4, 2010, by Emerald.

It was selected for the winning award by the journal's editorial team, which included a number of eminent scholars. According the judges, the paper was one of the most impressive submis-

sions of academic work the team had reviewed in 2010.

Dr. Supattana, a Thai-national who graduated from AIT in December 2010 and is currently a faculty member at Rangsit University in Bangkok, explained that the paper is based on her doctoral thesis work at AIT.

Receiving the award was unexpected and a nice reward for the pair's hard work, Dr. Supattana said. "I am so proud of the award and I am very happy that my advisor can be proud of our work submitted under the name of AIT."

The study analyzed the effect on centralized dispatching generation costs under the condition where the single-buyer electric supply industry (ESI), with independent power producer (IPP) scheme, is opened for bilateral trading. The ESI structure is widely implemented in developing countries. The analysis is based on the Thai power system. The paper illustrated that the operational constraints under the IPP scheme under the single-buyer ESI has resulted in an uneconomic operation in the current power system of Thailand. These constraints will be accumulated as the power system continues to expand, and therefore, will be an obstacle for moving towards ESI reform under conditions of more competition.

The paper found that potential exists for better

operating conditions for bilateral trading. Planning and policy should take into consideration these conditions especially during the transitional period of ESI reform. The authors said the results are instructive for other developing countries operating the similar ESI structure. According to Dr. Supattana, the way the paper pointed out the current system's constraints and provided an analysis and discussion for the potential solutions may have impressed the judges.

"We worked hard to revise the paper to be as up-to-date as recommended from the reviewers. The whole work was re-simulated to incorporate the present situation of Thailand."

🌐 AIT alumnus Professor Yew-Chaye Loo (M.Eng. Structural Engineering and Construction, 1968) of Australia has been awarded the honorary title of "The World Chinese Top 10 Enterprising Pioneer".

Prof. Loo, who is the Foundation Chair of Civil Engineering at Griffith University, Queensland, received the honor at a ceremony on 21 May 2011 at the National People's Congress Conference Centre, Beijing, China. The award is intended for persons of Chinese descent.

The Honorable Zhou Tie-nong, Vice Chairman, Standing Committee of the National People's Congress presided over the event. The honour was awarded jointly by the World Chinese Venture Model Association (WCVMA) and the China Association for Promoting International Economic and Technical Cooperation, which is a subsidiary of the China Association for Science and Technology. Two other categories of titles were also awarded in Beijing: The "World Top 10 Enterprising Model" and the "World Top 100 Enterprising Star". In all, three Australians of Chinese descent were honored, one in each of the three categories. Prof. Loo was the sole academic to win the award.

To commemorate the occasion, Chinese authorities published a Biographic-Philatelic album which featured the life stories of the top 60 awardees, each complemented by two pieces of officially issued personalized postage stamps.

Prof. Loo was born in 1944 in Ipoh in the then British Malaya. He entered AIT in 1966 and earned his M.Eng. in Structural Engineering in 1968. The AIT graduate then went on to obtain his PhD from Dundee University, Scotland in 1971. Prof. Loo is married, and has two children.

The following is an excerpt from the award's commemorative album: "From a Chinese-educated schoolboy in a British Malayan backwater, Yew-Chaye Loo has become one of Australia's most senior and prominent structural engineering academics."

At Griffith University Prof. Loo is an international authority on concrete structures. His research now includes road and bridge assets management, in particular the effective use of bridge management systems for major networks.

🌐 AIT alumna Dr. Ranjna Jindal (M.Sc. Environmental Engineering, 1982 and Doctor of Technical Science, Water and Wastewater Engineering 1995) Mahidol University (MU) was recently honored by her university as the advisor of the Mahidol University 2010 Distinguished Thesis Awardee, Ms. Ying Li.

The AIT graduate was presented with two certificates by Clin. Prof. Piyasakol Sakolsatayadorn, M.D., President of MU, one for being the major advisor of her student, and the another for being the program director at the award ceremony on 21 May 2011. Dr. Jindal, who earned her Master's degree in Environmental Engineering in 1982, and doctorate degrees in Water and Waste Water Engineering in 1995 from AIT, joined MU in 2006, and is now a visiting professor and program director, International Graduate Program in Environmental & Water Resources Engineering, Civil Engineering Department, Faculty of Engineering. She said: "My learning and training at AIT during my master's and doctoral study periods, as well as my experiences as a researcher and visiting faculty at AIT, have all contributed to my capabilities in teaching and research in my field at MU."

🌐 Prof. Murugesu Sivapalan (M.Eng. Water Resources Engineering 1977) was selected by the American Geophysical Union as the 2011 AGU Robert E. Horton Medalist

Prof. Sivapalan was honored in recognition of his "fundamental contributions to the science of hydrologic predictions at the watershed scale". This is the highest and most prestigious award for hydrology, worldwide, awarded for outstanding contributions to hydrology. He was honored at the Honors Ceremony on the evening of December 7 at the 2011 AGU Fall Meeting in San Francisco, U.S.A.

Established in 1974, the Horton Medal is named in honor of Robert E. Horton, who made significant contributions to the study of the hydrologic cycle. The Horton Medal is awarded not more than once annually to an individual "for outstanding contributions to hydrology." Walter B. Langbein was the first recipient of the Horton Medal. It is presented to one awardee annually. Dr. Murugesu (Siva) Sivapalan is Professor of Civil and Environmental Engineering, and also Geography at the University of Illinois, Urbana-Champaign. He holds a B.S. in Civil Engineering (University of Ceylon, 1975), M.A. (1983) and Ph.D (1986) in Civil Engineering, with a major in hydrology, from Princeton University.

🌐 Professor Ranjith Premalal de Silva, an alumnus (M.Sc. Agricultural Engineering 1983) of the Asian Institute of Technology (AIT) was appointed the new Vice Chancellor of Uva Wellassa University of Sri Lanka.

Professor Ranjith Premalal de Silva, an alumnus of the Asian Institute of Technology (AIT) was appointed the new Vice Chancellor of Uva Wellassa University of Sri Lanka. He is the second Vice Chancellor of Uva Wellassa University, and he would replace Prof. Chandra Embuldeniya, who completed his tenure. Prof. Ranjith Premalal de Silva is currently Professor of Geo-informatics in the Department of Agricultural Engineering at the University of Peradeniya. After receiving his education at Nalanda College Colombo, he entered University of Peradeniya and graduated

with a B.Sc. in Agriculture. He graduated with a Master's in Science in Natural Resources Development and Management from AIT in 1990. He is the founder President of Geo-Informatics Society of Sri Lanka, and former Director of Hector Kobbekaduwa Agrarian Research and Training Institute (HARTI), Sri Lanka.

🌐 Dr. Shabbir H. Gheewala, an AIT alumnus, has recently been appointed Professor at King Mongkut's University of Technology Thonburi (KMUTT), Thailand.

Dr. Shabbir completed his Master's and Doctorate under the Environmental Engineering Management (EEM) Program in AIT in 1995 and 2001 respectively, under the supervision of Prof. Ajit Padmakar Annachhatre.

🌐 The Royal Society for Protection of Nature (Bhutan), an organization headed by Dr. Lam Dorji (M.Sc. & Ph.D. Resources Planning and Management 1998, 2003) an alumnus of Asian Institute of Technology (AIT), has won the MacArthur Award for Creative and Effective Institutions.

Dr. Dorji is the executive director of The Royal Society for Protection of Nature (RSPN).

🌐 Dr. Haneef Mian, an AIT alumnus was appointed the Ledcor Group Applied Research Chair in Oil Sands Environmental Sustainability at Northern Alberta Institute of Technology (NAIT), Canada

Dr. Haneef credits AIT for the knowledge gained during graduate studies, and the advice offered to him at the Environmental Engineering and Management (EEM) program. "The graduate training at AIT-EEM provided me with the state-of-the-art tools, techniques and practices that assisted me in pushing the envelope," he says. Describing his studies at AIT as "amazing," Dr. Haneef recalls that there were challenges along the way, and that he still reflects on the advice and knowledge gained during graduate studies.

“Kudos to all for making my time at AIT memorable, enjoyable and extremely productive, and thank you for contributing to my career,” he said.

Dr. Haneef, who was earlier with the Energy Resources Control Board (ERCB), completed his M.Eng. in Water and Wastewater Engineering from AIT in 1997.

Mr. Navaneethan Navaratnam (M.Eng. Environmental Engineering and Management 2007), an AIT alumnus from Environmental Engineering and Management (EEM) field of study, has been awarded with the “2011 Radebaugh Award” by the Central States Water Environment Association (CSWEA), United States.

While conveying the news of his selection for the award, Mr. Navaneethan not only expressed his gratitude, but he has also dedicated the award to Prof. Chettiyappan Visvanathan of AIT’s EEM and Dr. Samir K. Khanal of the University of Hawaii at Mānoa. Prof. Visvanathan was the Chairperson guiding Mr. Navaneethan’s thesis when he was pursuing his Master’s in Engineering at AIT; and Dr. Khanal, then with Iowa State University, was the co-chairperson. In a message to his former advisors, Mr. Navaneethan says, “I would like to dedicate this award to you both.”

AIT alumna Ms. Binda Pandey (M.Sc. Gender and Development Studies 2002) was elected Deputy Member of the Governing Body of the International Labour Organization (ILO), a United Nations specialized agency.

Her ascension took place at the 100th Session of the International Labour Conference held from 1-17 June 2011 in Geneva, Switzerland.

Dr. Nguyen Quan (M.Eng. Energy Technology 1989) was elected to the Party Central Committee of the Communist Party of Vietnam, the 11th tenure (2011-2015), at the 11th National Congress of the Communist Party of Vietnam, and was appointed as Minister of the Ministry Science and Technology.

The 13th National Assembly of the Socialist Republic of Vietnam (SRV) at its first session approved the new cabinet proposed by Mr. Nguyen Tan Dung, the re-elected Prime Minister. Dr. Nguyen Quan, who was elected to the Party Central Committee of the Communist Party of Vietnam, the 11th tenure (2011-2015), at the 11th National Congress of the Communist Party of Vietnam, was appointed as Minister of the Ministry Science and Technology. Dr. Quan is an AIT alumnus who received his Masters degree in Energy Technology from AIT in 1989.

AIT alumnus Professor Robertus W. Triweko (M.Eng. Water Resources Engineering 1984) of Parahyangan Catholic University (UNPAR), Bandung, Indonesia has been appointed Rector of the university. Professor Triweko is an alumnus from the Water Engineering and Management (WEM) field of study, SET

AIT alumnus Professor Robertus W. Triweko of Parahyangan Catholic University (UNPAR), Bandung, Indonesia has been appointed Rector of the university, and will take up his new position with effect from 1 October 2011. Professor Triweko is also working closely with SET AIT through the MoU with UNPAR and WEM is in the process of developing a joint research and educational activities and currently conducting a research project.

Mr. Rungrot Kitsomboonloha (M.Eng. Microelectronics 2007) won the Tong Leong Lim Pre-doctoral Prize, in recognition of his achievement of receiving the highest distinction in the pre-doctoral examination.

Mr. Rungrot Kitsomboonloha worked at the Center of Excellence in Nanotechnology after completing his Master's degree with Prof. Joydeep Dutta received this award presented in memory of Tong Leong Lim, who ranked as the top student in his pre-doctoral examination. Tong Leong Lim received his Ph.D. in electrical engineering in 1976, under Professor George Turin. The prize has been given since 1988 and is presented annually to a graduate in Electrical Engineering and

Computer Sciences (EECS) who has achieved the highest distinction in the pre-doctoral examination. Top scoring student information is provided to the Awards Committee by the EECS Center for Student Affairs and the awardees are recognized at the EECS annual Student Awards ceremony.

Dr. Alvin Culaba (M.Eng. Energy 1990) and Dr. Arnulfo Azcarraga (M.Sc. Computer Science and Information Management 1987) were appointed as Executive Vice President and the Vice Chancellor for Research, respectively at De La Salle University, Manila, Philippines.

President of the AITAA-Philippines Chapter, Mr. Allen Surla (M.Sc. Computer Science 1994) was appointed as the Director of Information Technology Services Office of the same De La Salle University, Philippines.

Prof. Md Rafiqul Haque who conducted his post doctorate from the Asian Institute of Technology (AIT) in 1989-1990, was appointed the new Vice Chancellor of Bangladesh Agricultural University (BAU), Mymensingh. He is the twenty second Vice Chancellor of BAU.

The appointment was made by the Chancellor of the University Hon. Mr. Md Zillur Rahman, President of Bangladesh. Prof. Haque is currently a senior professor of Irrigation and Water Management Department at BAU. He joined BAU as a lecturer in 1972.

An alumnus of the Asian Institute of Technology (AIT), Prof. Somchai Wongwises (M.Eng. Energy 1984), was recognized as a National Outstanding Person in the field of Science and Technology 2011 by National Identity Board, Office of the Prime Minister, Thailand.

The announcement was made by the Office of the Prime Minister on 29 August 2011. The awards were granted to 11 outstanding persons, organizations, and projects that have contribut-

ed to the country and have served as role models for the general public and other organizations to follow. H.M. King Bhumibol Adulyadej of Thailand graciously presented the award certificates and pins to all the recipients.

Prof. Somchai completed his Master's in Energy Technology from AIT in 1984. He completed Bachelor's in Mechanical Engineering from King Mongkut's University of Technology, Thonburi (KMUTT), Ph.D. from Chulalongkorn University and Doctor of Engineering from University of Hannover, Germany.

Prof. Dr. Somchai is the recipient of several awards such as Outstanding researcher award from the Thailand Research Fund (TRF) (1996-1997), TRF Senior Research Scholar (2003 – 2009), Outstanding Researcher Award in Engineering and Industrial Research from the National Research Council (2004), Outstanding Scientist Award from the Foundation for the Promotion of Science and Technology under the Patronage of His Majesty the King (2006), Outstanding Lecturer in the field of Science and Technology from the Council of University Faculty Senate of Thailand (2009) and the Outstanding Research Professorship from TRF and OHEC (2010).

Distinguished AIT alumnus Dr. Prasarn Trairatvorakul (M. Eng Industrial Engineering and Management 1976) was bestowed with the 2011 Emerging Markets Central Bank Governor of the Year Award for Asia, in recognition of his strong policy track record and steadfast commitment to maintaining economic stability over the past 12 months.

Dr. Prasarn obtained his M. Eng. from AIT in Industrial Engineering and Management in 1976, and is the Bank of Thailand Governor. The Emerging Markets news magazine, which is part of Euromoney Institutional Investor PLC, is one of the largest and most respected providers of financial information worldwide. For the full story visit:

An article co-authored by AIT alumnus Dr. Mohammad Waseem Ashraf (M.Eng. Microelectronics 2011) along with his advisor Dr Nitin Afzulpurkar, Dean, School of Engineering and Technology, and some other co-authors, was selected among the top 10 best papers published in 2010 in the Sensors and Transducer Journal.

Dr. Ashraf worked as a Postdoctoral fellow with Dr. Afzulpurkar, starting from this October 2011. The Springer article can be found at the below link and is among the top two most downloaded articles for 2011.

AIT Alumnus, Dr. Prathapasinghe Dharmawansa, currently a Research Fellow at the Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, won the Best paper award for his paper titled "Analysis of the Level Crossing Rates for Ordered Random Processes" in the Communication Theory symposium, IEEE International Conference of Communications (ICC).

The awards ceremony was held in in Kyoto, Japan from 5-9 June, 2011. ICC is a premier conference in the area of Telecommunication Engineering. Dr. Dharmawansa was at AIT from 2005-2007 on a Government of Finland scholarship, a doctoral graduate of ICT field of study, under the supervision of faculty colleague Dr. R. M. A Premanandana Rajatheva, from the Telecommunications Field of Study, School of Engineering and Technology (SET).

Dr. Seree Supratid (M.Eng. Water Resources Engineering 1987) has been labelled the "Nostradamus of Bangkok floods" by the English daily Bangkok Post. Dr. Seree has emerged as a national celebrity following his accurate flood warnings and predictions, easy to understand reliable information and technical advice.

An alumnus of AIT, Dr. Seree Supratid has been labelled the "Nostradamus of Bangkok floods" by the English daily Bangkok Post. Dr. Seree has emerged as a national celebrity following his ac-

curate flood warnings and predictions, easy to understand reliable information and technical advice.

A feature on Dr. Seree in the English daily Bangkok Post states that "The Nostradamus of Bangkok floods has become a sort of celebrity with the result that people now wave to him, approach him and pose for photographs, and even seek his autograph when out inspecting flood situation in their neighbourhoods." Dr. Seree's fame has increased following the 15 minute daily news programme, Vikraw Satanakarn Nam (Analysing the Flood Situation) that is broadcast daily at 2000 hours on the Thai PBS channel.

After graduating from AIT with a Master's in Engineering in Water Resource Engineering in 1987, Dr. Seree has maintained his links with the Institute. He was the co-chair for the session "Assessing the damage and mapping the risks" during a regional symposium on "Scientific forum on the tsunami, its impact and recovery" organized at AIT in June 2005.

AIT alumnus from Nepal Professor Madhav K. Shrestha (M.Sc. Agricultural and Food Engineering 1989), Professor of Aquaculture, Institute of Agriculture and Animal Science (IAAS), Tribhuvan University, Rampur, Chitwan, Nepal was honoured by the Prime Minister of Nepal for his outstanding contribution in the field of Agriculture (Aquaculture) in Nepal country on the occasion of 18th "Madan-Aasrit Memorial day

AIT alumnus from Nepal Professor Madhav K. Shrestha, Professor of Aquaculture, Institute of Agriculture and Animal Science (IAAS), Tribhuvan University, Rampur, Chitwan, Nepal was honoured by the Prime Minister of Nepal for his outstanding contribution in the field of Agriculture (Aquaculture) in Nepal country on the occasion of 18th "Madan-Aasrit Memorial day". Professor Shrestha has been a long term project partner of our Aquaculture and Aquatic Resources Management (AARM) field of study, and this also reflects the role of AARM in this important contribution of Professor Shrestha's work in Nepal.

The following link has the news paper coverage:

Dr. Assadej Vanichchinchai, SOM Ph.D. alumnus 2009 and Dr. Barbara Igel, Dean SOM has received an Excellent Paper Award for the paper titled “The Impact of total quality management on supply chain management and firm’s supply performance”, International Journal of Production Research, Vol. 49, No. 11, 2011, pp. 3405-3424. The award was presented on the occasion of the 45th Anniversary of the National Institute of Development Administration (NIDA) Thailand. The paper was also published in the International Journal of Production Research.

Plaudits for AIT alumni in USA, Nepal, Canada and Thailand

AIT now has more 18,000 alumni from 85 countries. This past month saw reports from four countries where AIT alumni cropped notable academic awards and earned career promotions, continuing the legacy of professional achievement that is the hallmark of so many AIT graduates in Asia and around the world.

Dr. Assadej Vanichchinchai (Ph.D. Management of Technology 2009) recently received the “Excellent Paper Award” on the occasion of the 45th Anniversary of the National Institute of Development Administration (NIDA) Thailand.

His paper titled “The Impact of total quality management on supply chain management and firm’s supply performance” was co-authored by Dr. Barbara Igel, Dean of AIT’s School of Management. It was published in the International Journal of Production Research, Vol. 49, No. 11, 2011.

Professor Dr. Somchai Vongvises who is an AIT alumnus (M.Eng. Energy Technology 1984) was honored as the “2011 National Distinguished Person of the Year in Science and Technology” by the National Identity Commission, Office of the Prime Minister of Thailand

Professor Somchai is currently serving as Professor of Mechanical Engineering Department at the King Mongkut University of Technology. Prof Somchai is also a member of the Royal Institute of Thailand and is widely respected among engineering scholars in Thailand and internationally in his area of thermal engineering and multiphase flow. He was selected among qualified Thai citizens around the country for his service in science and technology to the country and as being suitable as a role model. Professor Somchai will receive the award from His Majesty the King of Thailand in due course.

Professor Hoang Tuy, former AIT visiting faculty from Vietnam, is the the first recipient of the International Society of Global Optimization’s Constantin Caratheodory Prize for his pioneering work and fundamental contributions to Global Optimization.

Professor Tuy was granted an honorary doctorate in 1995 from Sweden’s University of Linköping and received the Ho Chi Minh Order in 1996 and Phan Chau Trinh Award in 2010.

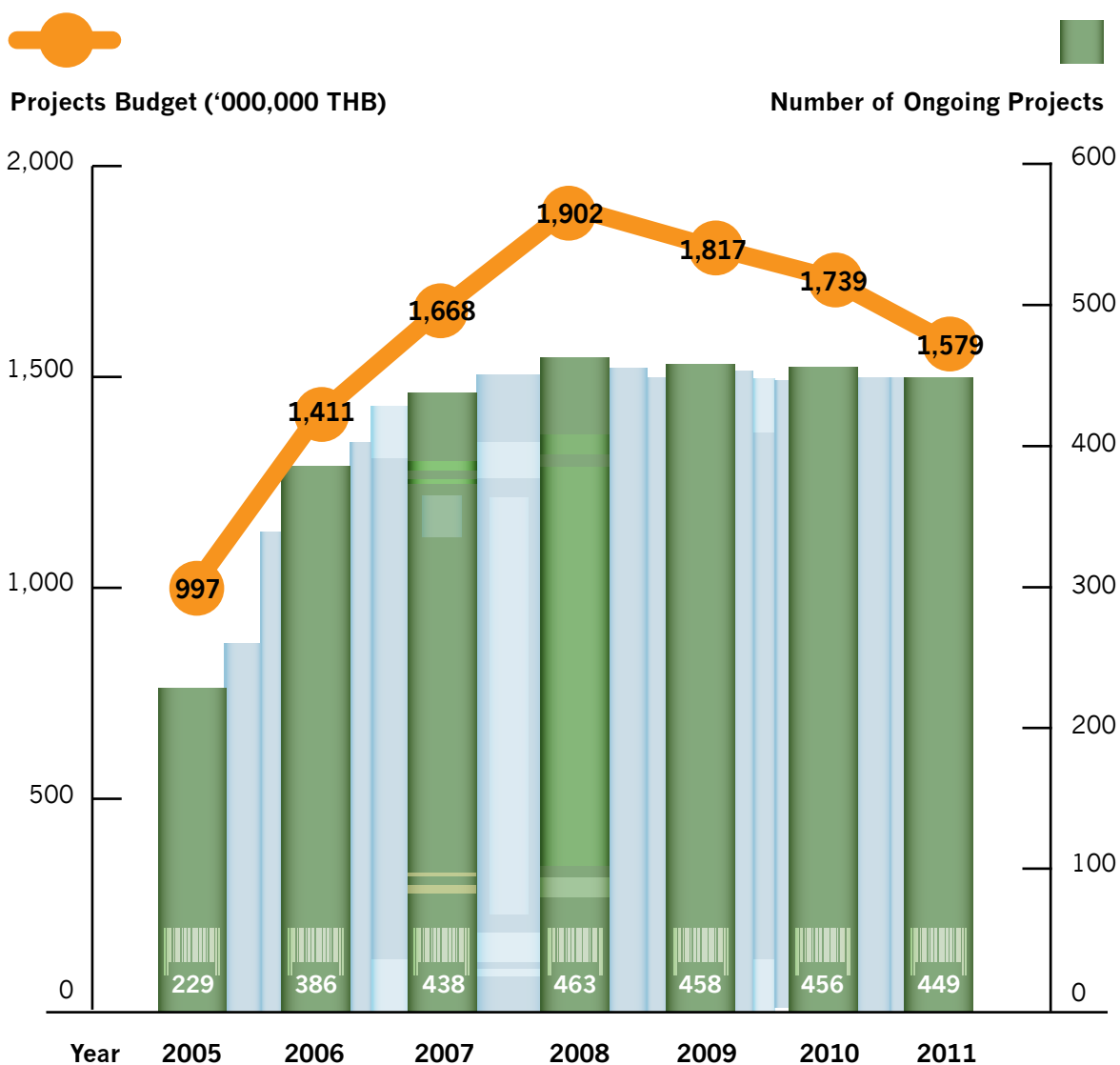
The Constantin Caratheodory Prize of the International Society of Global Optimization is awarded bi-annually to an individual (or a group) for fundamental contributions to theory, algorithms, and applications of global optimization. The Prize named after mathematician Constantin Caratheodory is awarded for outstanding work that reflects contributions that have stood the test of time. The criteria include scientific excellence, innovation, significance, depth, and impact. Professor Tuy is considered a leader in the field of global optimization with his masterpiece ‘Global Optimization - Deterministic Approaches’ published in 1990-1996.

AIT PROJECTS AT A GLANCE

- NUMBER OF ONGOING PROJECTS
- TOTAL BUDGET

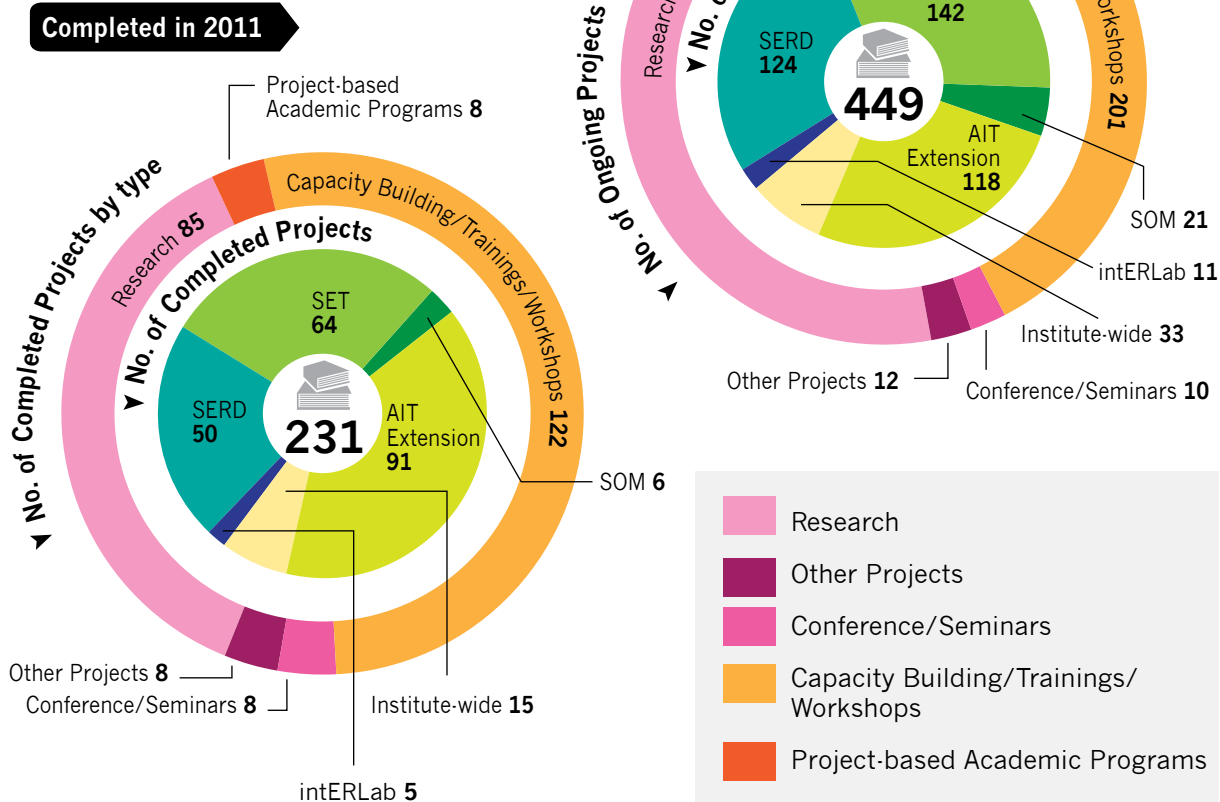
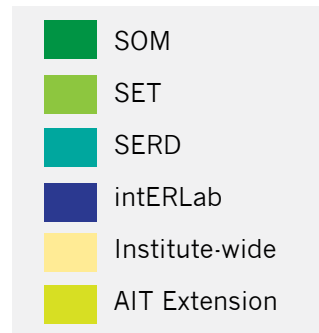
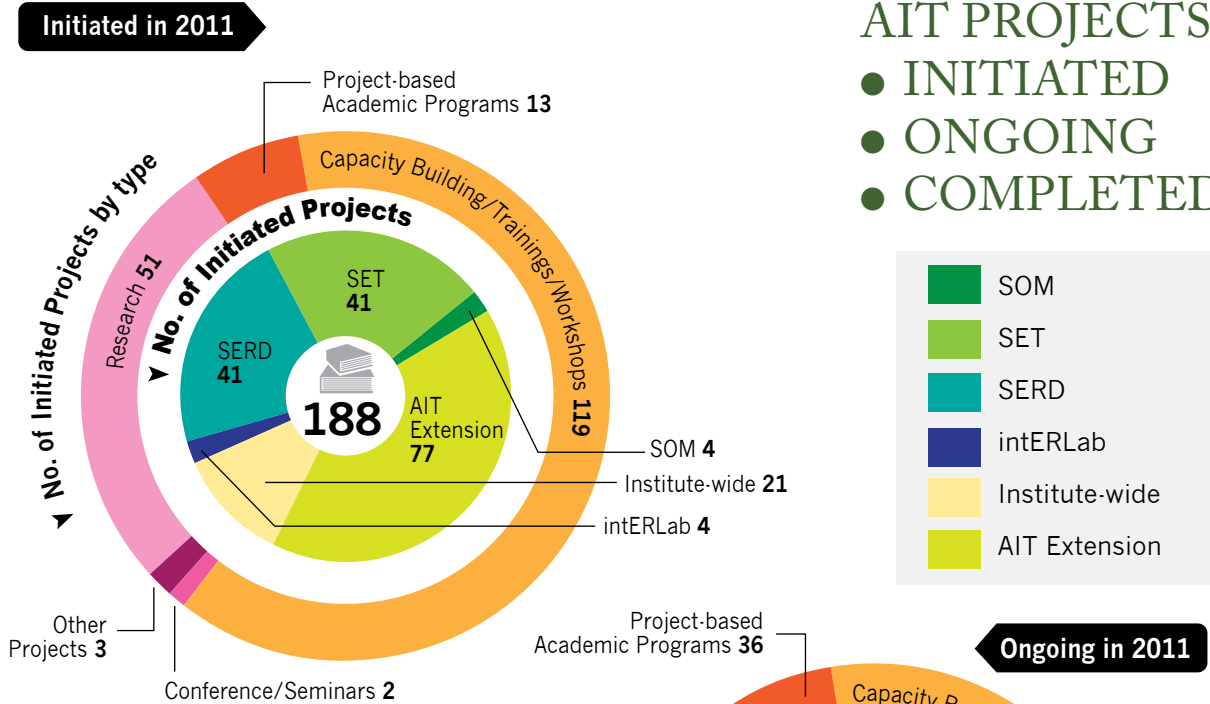
Ongoing Project Numbers and Budget 2005-2011

(Project Budget is identified in Millions ('000,000) Thai Baht)

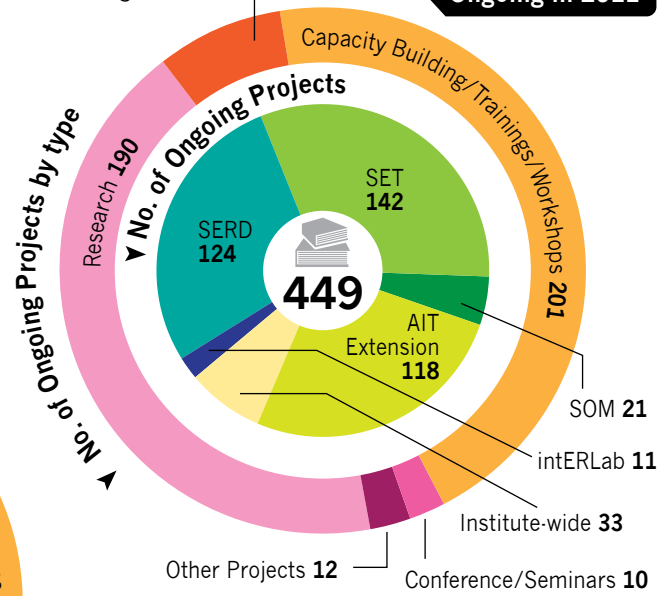


AIT PROJECTS

- INITIATED
- ONGOING
- COMPLETED

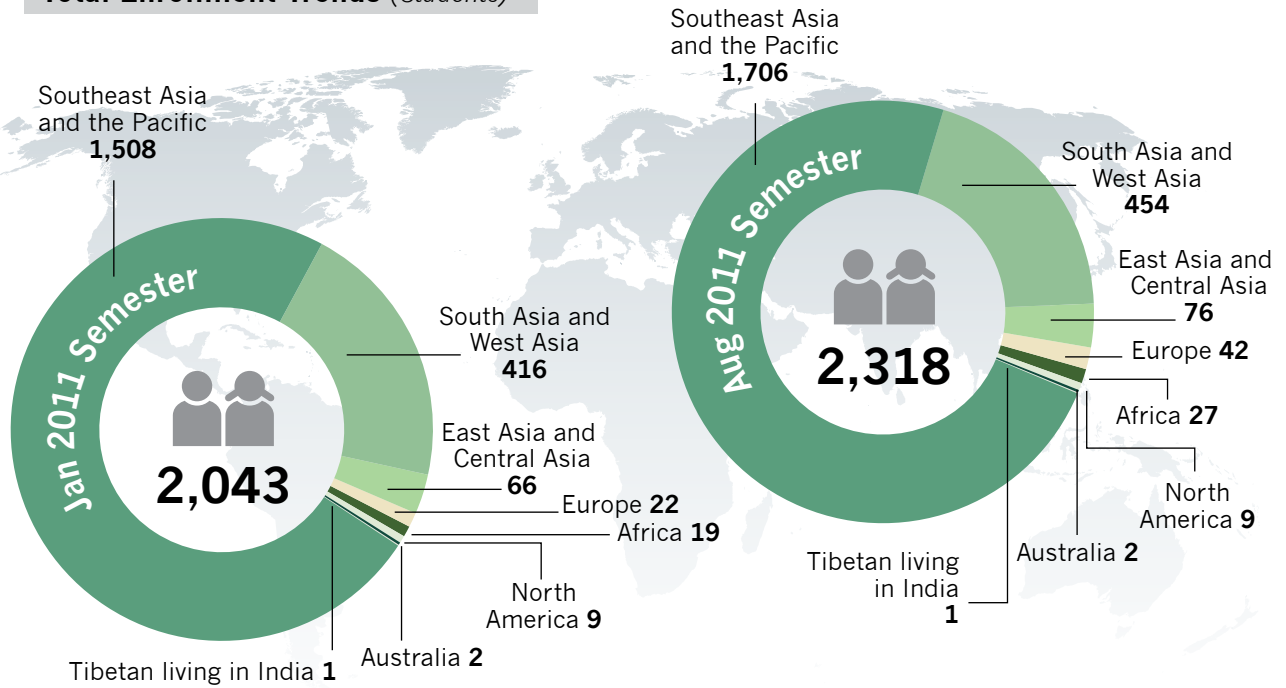


Ongoing in 2011

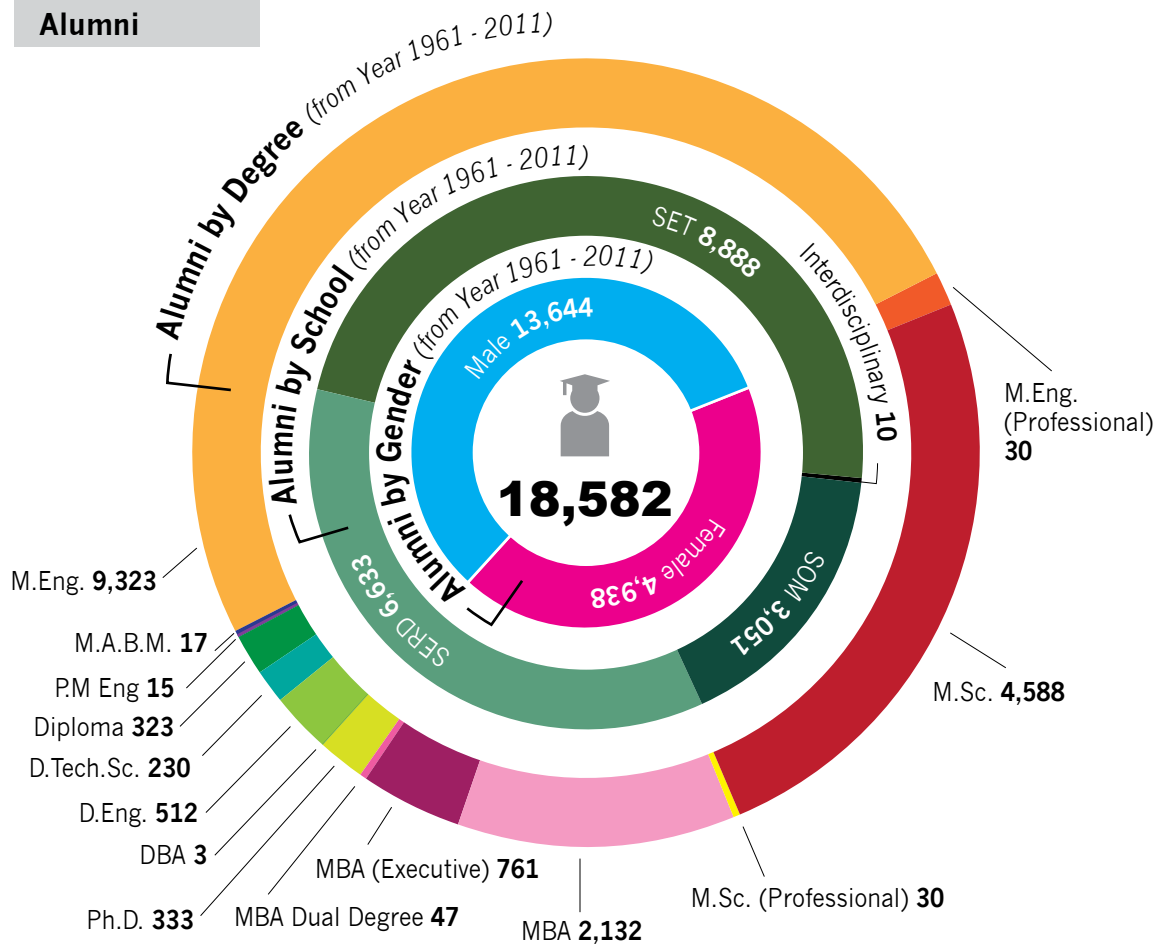


STUDENTS AND ALUMNI AT A GLANCE

Total Enrollment Trends (Students)



Alumni



AIT FACULTY AT A GLANCE

2011 Faculty Figures				
	Faculty Headcount	Faculty Strength in FTE*	Students ¹	Student-to- Faculty (FTE) Ratio
	Annual Average			
School of Engineering and Technology				
Full-time Faculty ²	41.17	41.17		
Visiting Faculty ³	5.58	2.79		
Adjunct Faculty	30.83	7.71		
Total	77.58	51.67	904.00	17.50
School of Environment, Resources and Development				
Full-time Faculty	35.92	35.92		
Visiting Faculty	3.08	1.54		
Adjunct Faculty	9.00	2.25		
Total	48.00	44.75	635.00	14.19
School of Management				
Full-time Faculty	12.58	12.58		
Visiting Faculty	0.58	0.29		
Adjunct Faculty	15.42	3.85		
Total	28.58	16.73	609.00	36.40
Asian Institute of Technology				
Full-time Faculty	89.67	89.67		
Visiting Faculty	9.25	4.63		
Adjunct Faculty	55.25	13.81		
Total	173.00	122.31	2,148.00	17.56

* Faculty strength is expressed in full-time equivalent (FTE) using the following factors:

1.00 for full-time and regular faculty members,

0.50 for short-term Visiting Faculty; and

0.25 for Adjunct Faculty.

¹ 23 (on average) interdisciplinary students were excluded, thus the slight discrepancy with the overall number of students presented.

² Include Professors, Associate Professors, Assistant Professors, Instructors, and long-term Visiting Faculty (with ≥ 1 year appointments).

³ Short-term Visiting Faculty (with < 1 year appointments).

INTERNATIONAL REACH



Internationality has always been core to the Institute and its role as a regional network institute. Firstly, it is our students and alumni, faculty and staff, and members of the Board of Trustees who all contribute to bring the world to AIT by their diverse nationalities, with more than 80 countries across all continents represented.

Secondly, this also happens through AIT's partners – whether from higher education institutions (HEI), governments, NGOs, the private sector, international organizations, development banks, and bilateral and multilateral organizations.

In a little over than 50 years, the Institute has grown from its main campus in Thailand



into a major network consisting today of Centers in Vietnam and Indonesia, a new Office in China, representatives in numerous countries, and partner organizations based at AIT who conduct regional operations. AIT has also moved into undergraduate and unified bachelor-master programs with partner higher learning institutes.

Within this context, it is natural for AIT not only to pursue its mission in Asia but also to reach out partners in all corners of the world; in particular in Europe and North America, but also venturing into new emerging grounds in Africa, the Indian Ocean Region and Central Asia.



ASIA is naturally the continent of choice for our activities where most of AIT Community and partners come from. Our host country, Thailand, has continued to provide major support to the Institute, in particular through scholarships support from H.M King of Thailand, H.M Queen of Thailand and the Royal Thai Government.

In the ASEAN Region, 2011 was a fruitful year for activities in Myanmar with plans for a Professional Master's in Public Policy (MPP) Program in partnership with Myanmar Egress (ME), a non-profit organization established by Myanmar scholars and social workers.

The Republic of Indonesia also became the fourteenth signatory of the new AIT Charter. On 20 January 2011 AIT Trustee H.E. Mr. Mohammad Hatta, Ambassador of Indonesia to Thailand, signed the new AIT Charter, at a ceremony organized at the Ministry of Foreign Affairs, Royal Thai Government. Indonesia thus joined 12 countries and one international organization in signing the AIT Charter. On 19 April 2011, AIT signed a general MoU with the Government of Aceh, and a specific MoA for a 5-year scholarship program that will support 100 staff and faculty members of the Government of Aceh and higher learning institutions in Aceh to pursue master's or doctoral degree programs at AIT.

Vietnam continued to be one of AIT's main partners, with the second biggest student body at AIT and a dynamic center in Vietnam that oversees activities in Ho Chi Minh City, Hanoi and Can Tho.

On the South Asian front, numerous new agreements were signed in particular with India which also provides faculty secondments to AIT through the Ministry of Human Resource Development. Pakistan was a major partner in capacity building and professional education through AIT Extension, and also scholarships support from the Higher Education Commission. Discussions took place with Nepal, Bangladesh and with the Sri Lankan governments on the establishment of satellite campuses. Cooperation with Bhutan is also expected to strongly increase.

On the North-East Asian front, support was realized from the China Scholarship Council (CSC), which agreed to provide a total of 40 Doctoral or Master's scholarships during 2011-2014. This meant the first beneficiaries came for the August intake. Japan is still a major partner which actively supports various cooperation activities, such as visiting faculty, scholarships and projects. New agreements were signed South Korea and Taiwan.

BANGLADESH

- MoU – Darul Ihsan University

BHUTAN

- MoU & MoA – Bank of Bhutan Limited

CHINA

- MoA – The China Scholarship Council (CSC)
- MoU – Beijing Jiaotong University
- MoU – Shanghai Ocean University

INDIA

- MoU - SHIATS
- MoU - Jamia Millia Islamia
- MoU & MoA – BIMTECH
- MoU – United Group of Institutional (UGI)
- MoA – JNTUK
- MoU – TAPMI
- MoU – Teri University
- Amendment of MoU – Shivaji University

INDONESIA

- MoU & MoA – Government of Aceh

JAPAN

- Partnership agreement – RNUS-AIT, ICUS, University of Tokyo
- MoA – JAXA – Secondment of Dr. Yashikazu Kamiya
- Amendment – The Cooperation Agreement – JAXA
- MoA – JAXA – Secondment of Dr. Lal Samarakoon
- MoA – Hokkaido Univesity
- MoA – Japan Advanced Institute of Science & Technology (JAIST)
- MoA – Faculty of Fisheries Sciences, Hokkaido University
- MoU – Chubu University

KOREA

- MoU – Pukyong National University

MALAYSIA

- MoU - Universiti Teknologi Mara (UiTM)

MYANMAR

- MoU – Myanmar Egress

NEPAL

- MoU - Hydro Lab Pvt Ltd.
- MoU - Kathmandu University
- MoU & MoA – NEF-CCN

PAKISTAN

- MoU – Government College University (UGC), Lahore
- Renewal & Amendment – Nepal Airlines Corporation
- MoU – Government of Punjab
- MoU – University of Veterinary & Animal Sciences, Lahore
- MoU - Hyderabad Electric Supply Company Limited (HESCO)
- MoU - Islamabad Electric Supply Company Limited (IESCO)

PHILIPPINES

- MoA – University of the Cordilleras, Angeles University Foundation (DIT program in SET)

SINGAPORE

- MoU – Asian Aquaculture Network
- MoU - LifeWay

TAIWAN

- MoU - National Pingtung University of Science & Technology (NPUST)
- MoA – National Taiwan Ocean University

THAILAND

- Innovative Interfaces Software Maintenance Agreement
- MoU – National Institute of Development Administration (NIDA)
- MoA – Rangsit University
- MoA – Metropolitan Waterworks Authority (MWA)
- MoA – Team Group of Companies

VIETNAM

- MoU – Ho Chi Minh City University
- MoU/MoA/ Amendment – ICARGC, VNU
- Amendment – EVN & NEC
- MoA – Vietnam Electricity
- MoU - Foundation Engineering Institute (FE-CON INS)

Consolidating AIT's Bridge with Europe and North America

AIT has forged historical links with Europe and North America. It is therefore not surprising for the Institute to act as a bridge between the West and Asia. Whether at the governance level at our Board of Trustees or at the management level (the President is from Sweden, the Dean of School of Management is from Germany, the Director of AIT Extension is from the United Kingdom), the involvement of Europe has always been major. In particular France and Norway, through their respective Ministries of Foreign Affairs, and Sweden through the Swedish International Development Cooperation Agency (Sida) currently provide major funding and expertise to the Institute. France is also one of the major providers of Faculty secondments through its strategic partnership with CIRAD, a French research center working with developing countries to tackle international agricultural and development issues. It also second an international technical expert to AIT's Administration. Norway, Sweden and DAAD Germany support talent of the Asian region through various scholarships programs. The University of Borås (Sweden) started its campus Bangkok at AIT, and AIT welcomed the first batch of 18 students from the International Business Engineering Program (IBE). The students are spending their fourth semester at AIT and the goal is to have 100 to 150 students at AIT annually within the next few years.

AIT maintained participation in numerous Erasmus Mundus consortium in 2011 through the support of the European Commission:

Action 1.a – Joint Masters Programmes in which the students can follow part of their studies in different universities including Asian universities for internship:

- European Master Advanced Robotics Program (EMARO) coordinated by Ecole Centrale de Nantes, France.
- MIND Master's programme in Industrial Ecology coordinated by U. of Graz – Austria.

Erasmus Mundus Action 1.b – Joint Doctorates in which the students can follow part of their studies in different universities including Asian universities for internship:

ETeCoS3, Environmental Technologies for Contaminated Solids, Soils and Sediments coordinated by UNICAS, Italy.

Erasmus Mundus Action 2 – Mobility Partnerships between a European and an Asian Consortium:

- EuroAsia by U. of Boras (Sweden)
- Bridging the Gap coordinated by U. of Trento (Italy) which has lead in 2011 to the new program one-more-step
- EMMA coordinated by U. of Nice (France)
- MAHEVA coordinated by U. of Montpellier 2 (France)

Erasmus Mundus Action 3 – Attractiveness projects:

EACOVIROE (Enhance the Attractiveness of Computer Vision and Robotics in Europe), coordinated by U. of Burgundy (France)

In North America, a new agreement was signed with the University of Montréal in Canada and discussions took place with the US Embassy's representatives to engage the USA (an AIT founding member) in the new Charter. Since 2003, AIT has received undergraduate honors students from the James Madison School and College of Agricultural and Natural Resources of Michigan State University (MSU), USA, to participate in a special semester-long Study Abroad Program of MSU in collaboration with the Natural Resource Management (NRM) field of study. In January 2011, AIT welcomed 7 students from MSU under that special program.

AUSTRIA

- MoU - Universitaet Klagenfurt
- DENMARK
- MoA - Aalborg University
- FRANCE
- Financial agreement – French Embassy Year 2011
- General Declaration of Understanding – CIRAD, Universite de La Reunion
- MoA – Telecoms Sans Frontiers (TSF)
- MoU – University of La Reunion

GERMANY

- MoA - The Bauhaus Universitaet Weimar
- Confidentiality & Master Research Agreement – John Deere Asia (Singapore) Pte Ltd

NORWAY

- MoA - Ministry of Foreign Affairs (NMFA)
- PORTUGAL
- MoU – University of Minho

SWEDEN

- Amendment 2 – Agreement between SIDA & AIT on Support of Bilateral Research Collaboration with the National University of Laos during 1 Jan – 31 Dec 2011
- Amendment – SIDA Support on Research Strategy Development
- Amendment – SIDA Support on Capacity Building for Sustainable Development through Higher Education & Training in Cambodia, Laos PDR & Vietnam
- Extension of Agreement – SIDA in Support of Research Strategy Development

SWITZERLAND

- MoA - University of Applied Sciences Northwestern Switzerland FHNW

CANADA

- MoU – University of Montreal

Looking towards Africa

Africa and Asia are increasingly collaborating, such as through an initiative called the Asiafrica Foundation funded by Dr. Roland Amoussou-Guenou, who is also AIT adjunct faculty. Needs in higher education are huge and AIT can definitely play a role based on its experience in Asia. Exchanges are already taking place with Nigeria, Ethiopia, and Uganda. AIT received Dr. Georges Richard Tadonki from South Africa, a visiting faculty in the Disaster Preparedness, Mitigation & Management (DPMM) Program. AIT signed an MOU with Butisema University (BU), Uganda, in the area of faculty capacity building for BU, faculty and student exchange programs, joint

undertaking of research and publications and joint proposal development for project funding. AIT participated in the Afro-Asian Dialogues on Development Conference at UNESCO, Bangkok. AIT hosted the “Asian Prefabrication Technology for Budget Housing” seminar during 16-17 June 2011. The event was organized by the Asiafrica Foundation with the support of AIT Extension, and sponsored by Thai Design Consortium (TDC), and brought together African diplomats, academics, engineers, and businessmen to network on how Asian construction technology and expertise might address Africa’s large need for affordable housing.

Looking towards the Indian Ocean region and Central Asia

Beside Seychelles, which has already adopted the new Charter, a new agreement was signed with the Civil Service Commission of Maldives. Even though La Réunion Island is in French and European territory, it is located in the Indian Ocean between Madagascar and Mauritius Island, and is a member of the Indian Ocean Commission (IOC). The agreement signed with the University of La Réunion, CIRAD, and AIT emphasizes the common wish to link the two regions by benefiting from the respective regional networks. Similar to AIT, the University of La Réunion and CIRAD

attracts students and researchers from neighborhood countries.

In Central Asia, the Republic of Uzbekistan has indicated its will to join the new Charter. Discussions are also taking place within the AIT – UNEP Task Force for Central Asia to respond to the Astana “Green Bridge” Initiative (AGBI) that seeks to establish a Europe-Asia-Pacific Partnership to outline and facilitate a blueprint for a shift to a Green Economy through a new Green Growth development model.

Satellite campuses for Nepal, Sri Lanka and Vietnam

New satellite campuses in Nepal, Vietnam and Sri Lanka were under investigation and have received strong support from the respective governments, with commitments to give land and facilitate contacts with private investors. The business plans will be submitted to the governing body of the Institute for further

consideration. Other countries have also manifested their interest for such innovative models. These campuses would mainly run undergraduate programs, following AIT’s academic quality standards and contribute to AIT’s expanding international reach by substantially increasing our student body across Asia and beyond.

AIT opens office in Shanghai, China

On 24 February 2011, the AIT China Office inaugurated a new office in Shanghai. The Office will coordinate activities in the Shanghai business hub and Chinese provinces with the AIT main campus and its satellites in other countries. It will develop public relations and promote AIT in China, assisting in recruiting students / trainees, in assessing the capacity development needs in select provinces. It will work with AIT Schools and AIT Extension in developing relevant train-

ing curricula, and materials and translate these into Chinese; as well as promoting and maintaining public relations with existing partners and exploring new partnerships; developing teaching and learning packages as requested by Chinese clients; as well as serving as AIT's representative office in China and as a national resource center for AIT's activities in China. Mr. Johan Wikander is the Representative of the Office and Mrs. Hui Qu Jansons is deputy.

Two stage Undergraduate and Unified International Bachelor-Master's Programs

Two stage undergraduate programs mean that students enroll for two years in a partner institution to start their Bachelor degree and then continue it at AIT for the remaining two years in order to get their undergraduate degree. Such programs have been launched with the South Asian Institute of Management (SAITM) in Sri Lanka, with the Nepal Education Foundation-Consortium of Colleges, Nepal (NEF-CCN), and with the Myanmar MCC Training Institute (MCCi).

On 1st September 2011, AIT welcomed the latest batch of undergraduate students at its Orientation Day function. A total of 35 new students from Bhutan, India, Myanmar, Nepal, Philippines, Vietnam and Thailand enrolled. They were joined by 43 students from the South Asian Institute of Management (SAITM), Sri Lanka, who have already completed two years of undergrad-

uate study in their home country. Including the 47 continuing undergraduate students (admitted in September 2009 and September 2010) the overall number of undergraduate students on campus in 2011 was 125.

The Five-Year Unified International Bachelor-Master Program is a strategic curriculum offering a fast-track and economical way for students to complete bachelors and master's degrees at a partner university and at AIT, respectively. The students complete either 4 undergraduate years at the partner university and then 1 year at AIT (4+1), or a 3.5 year + 1.5 year scheme. AIT partners are two Thai universities: Chiang Mai University and Rangsit University; and two Indian universities: Jawaharlal Nehru Technological University Kakinada and Shivaji University.

Visits and Exchanges

10-Jan-11	UNESCO-IHE	Prof . Stefan Uhlenbrook, Director of AcadamicalAffairs	Netherland
14-Jan-11	Can Tho University (CTU)	Prof. Dr. Le Quang Tri, Vice- Rector	Vietnam
20-Jan-11	The French engineering school network n+1 and representatives from INSA Toulouse and ENS2M	Mr. Jean-Pierre Trotignon, Director	France
21-Jan-11	Jenderal Soedirman University (UNSOED)	Dr. Ichmad Iqbal, Dean of Agricultural Faculty	Indonesia
21-Jan-11	Lucian Blaga University of Sibiu	Prof. Constantin Oprean, Rector	Romania
26-Jan-11	Japan Aeospace Exploration Agency (JAXA)	Dr. Masanori Homma, Executive Director	Japan
28-Jan-11	Bank of Bhutan	Mr. Karma Tshering, Chief Executive Officer	Bhutan
1-Feb-11	United group of Institutions (UGI)	Dr. Jagdish Gulati, President	India
7-Feb-11	Official from Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS)	Prof. Dr. Rajendra Bihari Lal, Vice Chancellor	India
10-Feb-11	Thai International Cooperation Agency (TICA)	Mr . Apinan Phatarathiyanon, Director General	Thailand
10-Feb-11	Yeungnam University	Dr. Young Suck Chai, Dean of Engineering	South Korea
11-Feb-11	Indonesian Center for Agricultural Engineering Research and Development (ICAERD), Indonesian Agency for Agricultural research and Development (IAARD), Ministry of Agriculture	Dr.Ir. Astu Unaidi, Director	Indonesia
11-Feb-11	Bill and Melinda Gates Foundation (BMGF)	Dr. Frank Rijsberman, Head of Water, Sanitation and Hygiene	
16-Feb-11	Hydro Lab Pvt. Ltd, Nepal	Dr. Meg Bahadur Bishwakarma, General Manager	Nepal
16-Feb-11	Delegation from Crimson College of Technology	Mr. Devi Bhandari, Principal	Nepal
24-Feb-11	Asian Development Bank (ADB)	Mr. Craig Steffensen, Country Director	Thailand
28-Feb-11	MAFF and GIZ on Capacity Building Initiative	Mr. Heinz - Josef Heile, Head of the Rural Development Program	Timor Leste

1-Mar-11	University of Boras, Sweden	Dr. Han Bjork, Head of School of Engineering	Sweden
2-Mar-11	Campus of Federal Urdu University of Arts Sciences and Technology (FUUAST), Islamabad	Prof . Zahid Saleem, Professor and Campus In charge	Pakistan
2-Mar-11	Sciences Po Paris	Prof . Francois Bafoil	France
4-Mar-11	Myanmar Egress	Dr. Nay Win Maung, Secretary General	Myanmar
9-Mar-11	SHIATS	Prof. P. W. Ramteke , Dean of Post Graduate Studies	India
9-Mar-11	Darul Ihsan University (DIU)	Mr. Md. Quddous Khan, Registrar	Bangladesh
15-Mar-11	Busitema University	Prof. Mary Jossy Nakandha Okwakol, Vice Chancellor	Uganda
17-Mar-11	MoA signing with Hokkaido University	Prof . Naoshi Baba, Dean of the Graduate School of Engineering	Japan
23-Mar-11	Beijing Jiaotong University (BJTU)	Prof. Ning Bin, President	China
24-Mar-11	International Affairs Asia , Swiss Federal institute of Technology Lausanne (EPFL)	Mr. Marius Burga	Switzerland
24-Mar-11	Norton University	Dr. Lim Soktay, Rector	Cambodia
25-Mar-11	NASA	Mr. Justin Tilman, Attache at the US Embassy in Tokyo and NASA representative in the Pacific Rim	USA
30-Mar-11	Kathmandu University	Dr. Bim Prasad Shrestha, Head of Department of Mechanical Engineering	Nepal
30-Mar-11	Waikato Institute of technology (Wintec)	Dr. Surya Pandev , Director, International Research Relations	New Zealand
1-Apr-11	Gyan Vihar University	Dr. Y. K . Sharma, Dean of International School of Business Management	India
4-Apr-11	Nepal Education Foundation- Consortium of Colleges, Nepal	Dr. Sriram B. Mathe, Chairperson	Nepal
5-Apr-11	MCC Group	Mr. Tin Win Aung, Chairman	Myanmar
18-Apr-11	Government of Aceh	Mr. Syarifuddin Zainal Hasan, Chief Inspector of Aceh	Indonesia
18-Apr-11	Portcoast Consultant Corporation (PCC)	Mr. Hua Ngoc Thuan, Vice Chairman	Vietnam

21-Apr-11	Toyota Foundation	Mr. Kenta Kusuda, Program Officer	Japan
26-Apr-11	Colorado State University (CSU)	Dr. Sandra L. Woods, Dean of Engineering	USA
28-Apr-11	Changwon National University	Prof. Seong Ho PARK, President	South Korea
3-May-11	Chief Minister of Assam State	Shri.Tarun Gogoi, Chief Minister	India
13-May-11	CIRAD	Dr. Robert Habib , Head of PERSYST Department	France
25-May-11	Kabulpolytechnic University, Kabul	Dr. Ezatullah Ahmed, Chancellor	Afghanistan
26-May-11	International Centre for Integrated Mountain Development (ICIMOD)	Dr. Madhav Karki, Deputy Director General	Nepal
1-Jun-11	Bangladesh Agricultural Research Council	Dr. Md Abdur Razzaquer, Project Director, Project Cooperation Unit	Bangladesh
3-Jun-11	UNISDR	Mr. Jerry Velasquez, Senior Regional Coordinator	
7-Jun-11	The Civil service Commission of the Republic of Maldives	Mr. Mohammed Fahmy Hassan, Chairman	Maldives
13-Jun-11	MCC Group	Mr. Tin Win Aung, Chairman	Myanmar
21-Jun-11	Pact Thailand	Mr Kurt Macleod, Vice President for Asia/Eurasia	Thailand
24-Jun-11	Kochi University of Technology (KUT)	Prof. Ban Mikiko, Director of the International Relations Center	Japan
6-Jul-11	UNESCAP	Ms. Maria Tomovic, Green Growth Capacity Development Programme Consultant EDPS/EDD	Thailand
6-Jul-11	KAAD	Dr. Heinrich Geiger, Head of Asia Department	Germany
11-Jul-11	Nepal Delegation team from Ministry of Agriculture and Cooperatives (MoAC)	Mr. Surendra Kumar Subedi, Senior Agriculture Economist	Nepal
13-Jul-11	National Economics University (NEU)	Truong Dinh Chien, Dean of Marketing	Vietnam
20-Jul-11	US- Thailand Creative Partnership	Ms. Harriet Foster , Coordinator	USA
28-Jul-11	University of Burgundy	Prof. Daniel Raichvag , VP for Cultural Affairs	France

28-Jul-11 & 29-Jul-11	Islamabad Campus of Federal Urdu University of Arts Sciences and Technology (FUUAST)	Prof . Zahid Saleem , Professor and Campus In Charge	Pakistan
29-Jul-11	Bhutan Chamber of Commerce and Industry (BCCI)	Mr. Phub Tshering, Secretary General	Bhutan
9-Aug-11	Amata Science City	Dr. Chonchanok Viravan, Advisor	Thailand
18-Aug-11	Simon Fraser University	Dr. Nimal Rajapakse, Dean	Canada
18-Aug-11	University of North Texas	Dr. Richard Nader, Interim Vice Provost for International Affairs	USA
25-Aug-11	Budi Luhur University (BLU)	Mr. Kasith Hanggara, Chairman	Indonesia
26-Aug-11	Heriot-Watt University	Prof . Stephen Ogunlana, Faculty and Chair of Construction Project Management	UK
01-Sep-11 & 02-Sep-11	South Asian Institute of Technology and Management (SAITM)	Dr. Sisuru Sendanayake, Dean of Engineering	Sri Lanka
6-Sep-11	Toyo University	Prof. Kazuo Takahashi, Professor	Japan
12-Sep-11	Asian Development Bank (ADB)	Mr. Craig Steffensen , Country Director	Thailand
15-Sep-11	Amata Science Project	Dr. Chonchanok Viravan	Thailand
16-Sep-11	University of California	Prof. William C. Webster, Professor Emeritus	USA
20-Sep-11	Kungliga Tehniska Hogskolan (KTH)	Professor Anders Hult	Sweden
20-Sep-11	Global Water Partnership - South Asia Steering Committee and Thai Water partnership	Dr. Mercy Dikito-Wachtmeister, Senior Network Officer	
21-Sep-11	Delegation from UNDP and Government of Afghanistan	Mr. Rohullah Osmani, Director General, Independent Administrative Reform and Civil Service Commission	Afghanistan
26-Sep-11	Delegation from University of Allahabad	P. N. Dr. Pandey	Pakistan
28-30 Sep 11	Delegation from University of Veterinary and Animal Sciences (UVAS), Lahore	Prof. Dr. Muhammad Nawaz, Vice Chancellor	Pakistan

27-Sep-11	MoU Signing ceremony with Universiti Teknologi Mara (UiTM)	Dato' Prof. Ir . Dr. Sahol Hamid Abu Bakar, Vice Chancellor	Malaysia
26-28 Sep 2011	Host Institution Investigation by Global Water Partnership Office Stockholm	Dr. Mercy Dikito-Wachtmeister, Senior Network Officer	Sweden
30-Sep-12	MoU Signing ceremony with Universitaet Klagenfurt	Prof. Hubert Lengauer, Vice President for International Relations & Communication	Austria
5-Oct-11	Institute de Recherche pour le Développement (IRD) Meeting	Dr. Robert Arfi, Director of Scientific Department Living Resources and Environment	France
6-Oct-11	University of La Reunion, CIRAD	Prof. Mohamed Rochdi, President of the University of La Reunion and Dr. Gilles Mandret, Regional Director of CIRAD – La Réunion	France
6-Oct-11	Agreement Signing with John Deere Pte Ltd	Mr. Sidney W. Bardwell, Director for Strategic Marketing for Asia and Sub Saharan Africa	Singapore
7-Oct-11	Assam Science & Technology University, Assam	Dr. P. Goswani, Vice Chancellor	India
11-Oct-11	HITEC University, Taxila	Dr. Jameel Ahmed, Professor and Chairman, Department of Electrical Engineering	Pakistan
11-Oct-11	Asian Development Bank (ADB)	Mr. Craig Steffensen, Country Director	Thailand
17-Oct-11	Multimedia University College (MMU)	Hon. Mutashi Kagwe, Chairman	Kenya
2-Dec-11	Delegation from Yamanashi University	Professor Futaba Kazama, Professor	Japan
14-Dec-11	Chubu University	Professor Kiyoshi Honda, Professor	Japan
30-Dec-11	Delegation from Nepal Education Foundation-Consortium of Colleges Nepal (NEF-CCN)	Dr. Pramod Bahadur Shrestha	Nepal

RESEARCH AND DEVELOPMENT

New Research Strategy Developed in 2011

The Asian Institute of Technology (AIT) has provided graduate level education as per the development needs of countries in the Asian region for more than 50 years. Today, with the emergence of some economies in Asia and the creation of institutions possessing strong research infrastructure, AIT intends to create a niche for itself by building rapidly on its existing strengths.

The research strategy developed in 2011 was the first of its kind in the history of AIT and has been developed with this in mind. During the year, AIT Research Strategy 2012-2016 was created with the understanding that research in today's world requires a critical mass of scientists and researchers in order to have a lasting impact.

It is premised on the institute's core research focus areas, and is guided by the overarching need for colleagues to work in inter and trans-disciplinary partnership with fellow scientists in the region and beyond. Benefitting from the strong

support of governments, non-governmental organizations, alumni networks, and research and developmental partners, AIT is now in a very good position to achieve its goals, as has been outlined in the strategy document.

AIT wishes to thank the Swedish Developmental Agency (Sida) for all its support to develop AIT Research Strategy 2012-2016 and for its guidance in using the Results Based Management (RBM) methodology. The framework of the document includes the overall objective of the strategy, the various outcomes that will help achieve the overall objective, the inputs that will be required to achieve the outcomes, the monitoring mechanisms that will indicate the progress being made, and the responsibilities and accountability centers of departments and people concerned. It is a dynamic document which will serve as a blueprint for the entire research planning and implementation process, and is to be revised depending on new demands as they arise.

SUSTAINABLE DEVELOPMENT IN THE CONTEXT OF CLIMATE CHANGE (SDCC)

The AIT community and its partners are committed to advancing research under the thematic knowledge area of Sustainable Development in the Context of Climate Change (SDCC). The theme of SDCC is at the heart of AIT Research Strategy 2012-2016. Under the umbrella theme, five thematic research sub-areas identified by AIT are:

- Vulnerability and Disaster Risk Reduction
- Water and Land Resources Management for Sustainable Production and Consumption
- Urban and Rural Quality of Life and Sustainability
- Low Carbon and Cleaner Production Technologies and Management
- Business and Innovation Models for A Green Economy

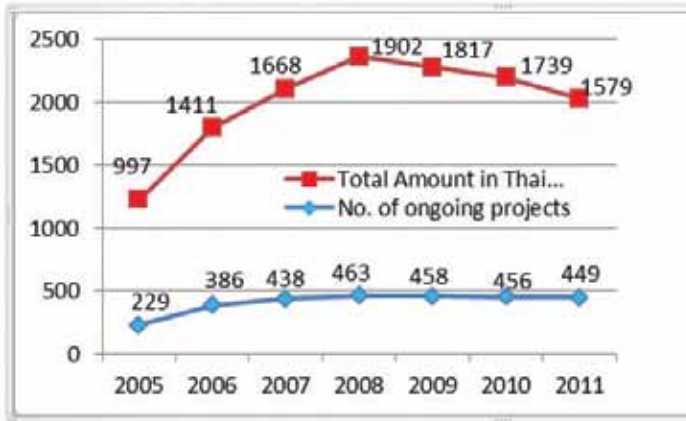


Figure 2.1: Project Budget is identified in Million ('000,000) Thai Baht.

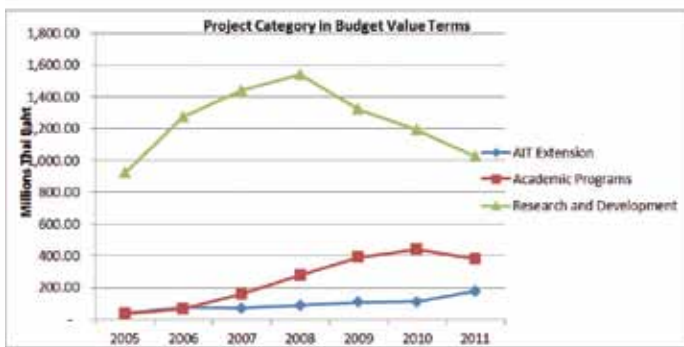


Figure 2.2 Budget Value terms 2005-2011

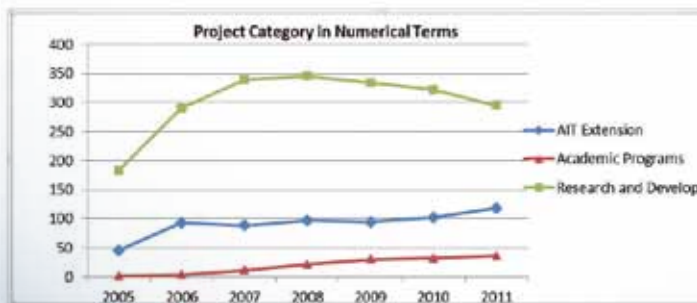


Figure 2.3 Numbers of Ongoing projects

PROJECT NUMBERS AND BUDGET 2005-2011

In line with the desire to impact on society by integrating academic research with industry and society's needs, AIT witnessed a good growth in the numbers of sponsored and contracted projects undertaken and that of publications between 2005-2011. **Figure 2.1** gives an overview of the trend of the ongoing sponsored and contracted projects for the period 2005-2011 both in and budget value terms and in terms of the number of ongoing projects undertaken during the same period.

TREND OF THE ONGOING PROJECTS BY CATEGORY

Sponsored and contracted projects undertaken at AIT are assigned under the Fund 30 which are categorized as Research and development which comprises Research, Capacity Building, Networking/Coordination, Training/Workshop and conference projects. The Academic Programs category comprises newly initiated Professional programs conducted by the different schools and AIT Extension category comprises continuing professional education, short-course training and consultancy services. **Figure 2.2** provides the trend for the period 2005 – 2011 on budget value terms and **Figure 2.3** gives the trend in terms of the number of ongoing projects under each category. Publications over the years has seen an increase in the requirements in order to enhance quality of research

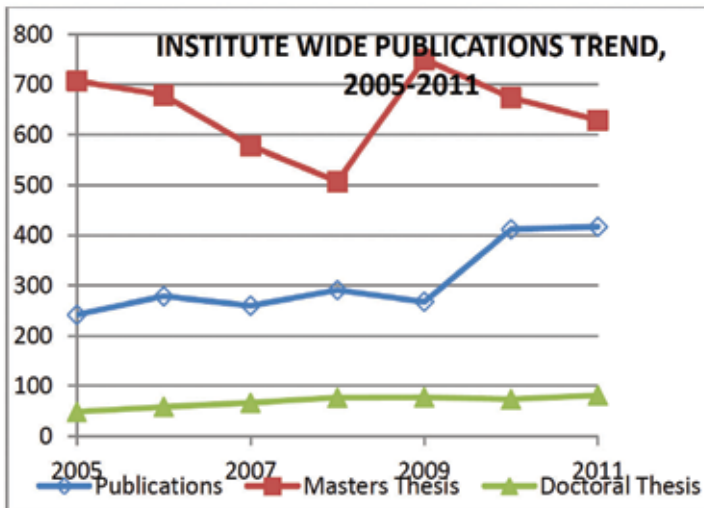


Figure 2.4: Institute Wide publications Trends

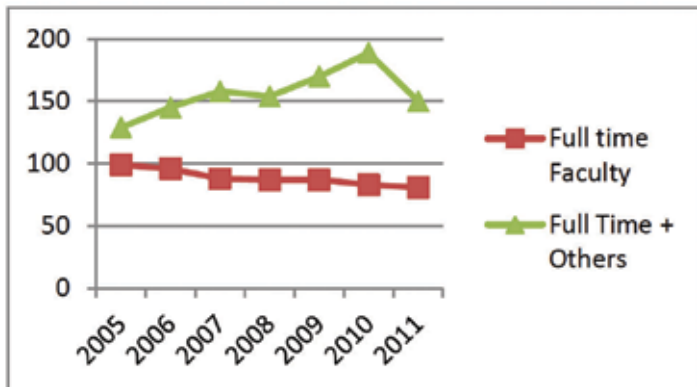


Figure 2.5: Faculty Strength 2005- 2011

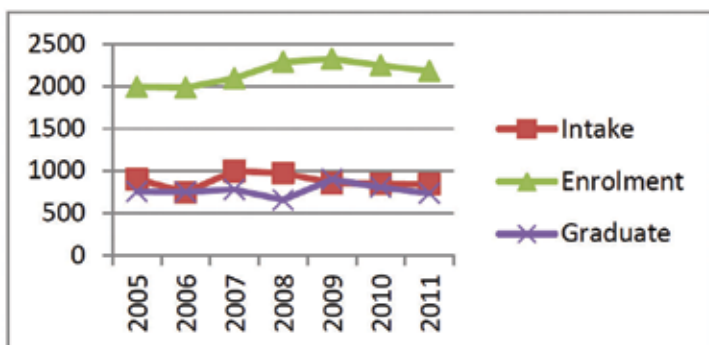


Figure 2.6: Instituted wide strength for the intake, Enrolment and graduated student strength for the period 2005-2011

from a time about a decade ago when doctoral students had only to submit a manuscript of a Paper before graduation, today all such students need to show acceptance of paper by an international and referred journal before they graduate.

Publications in refereed Journals as one measure of productivity in the academic spheres increased with a high margin between 2009 and 2011. this Discussions are being held to include additional criteria towards ascertaining the impact of such papers. **Figure 2.4** shows the trend of publications under the categories namely Referred Journal Publications, Doctoral Thesis, Master's Thesis as well as completed projects for the period 2005-2011.

Over the years there has been a reduction in seconded faculty (supported by different countries). This led to a reduction in the total full time faculty (as they were not all replaced by direct hire faculty) and highlights the tremendous effort put in by our faculty and research staff.

There has also been a subsequent increase in adjunct faculty who offer specialized courses and professional programs. **Figure 2.5** (left) shows the trend in the Faculty strength grouped as Full time faculty and total faculty including adjunct, affiliated, visiting faculty, etc. Research excellence in an international institution of higher learning as AIT is linked with the graduate students we have. **Figure 2.6** gives an institute wide trend on the intake, Enrollment and graduated student strength for the period.

MOST CITED IN SCOPUS

Publication and citation information is considered one of the most widely recognizable indicators of research output and quality, and collection and analysis of this information is among means to judge alignment of the institutions research activities with its strategic priorities. Here below shows the top 5 most cited publications in Scopus lifetime. It is planned to have a year on year analysis in due course.

1. **On the acceptability of arguments and its fundamental role in nonmonotonic reasoning, logic programming and n-person games (Cited 688 time(s))**
1995; Artificial Intelligence; Dung, P.M.
2. **Direct solid-liquid separation using hollow fiber membrane in an activated sludge aeration tank (Cited 281 time(s))**
1989; Water Science and Technology; Yamamoto, K., Hiasa, M., Mahmood, T., Matsuo, T.
3. **Developments in industrially important thermostable enzymes: A review (Cited 245 time(s))**
2003; Bioresource Technology; Haki, G.D., Rakshit, S.K.
4. **Membrane separation bioreactors for wastewater treatment (Cited 164 time(s))**
2000; Critical Reviews in Environmental Science and Technology; Visvanathan, C., Ben Aim, R., Parameshwaran, K.
5. **An abstract, argumentation-theoretic approach to default reasoning (Cited 162 time(s))**
1997; Artificial Intelligence; Bondarenko, A., Dung, P.M., Kowalski, R.A., Toni, F.

TOP RESEARCHERS WITH THE HIGHEST NUMBER OF PROJECTS INITIATED 2006- 2011

The streamlining of Project management and corresponding incentives towards initiation of projects has helped reinforce the institutions research objectives and focus. Table 2.1 highlights the top Researchers with the Highest Number of Projects initiated 2006- 2011.

Name	No. of Projects as PI	No. of Projects as PI and Group PI
Kanchana Kanchanasut	52	53
S. Kumar	18	38
Mukand S. Babel	27	30
C. Visvanathan	26	29
Kunnawee Kanitpong	24	28
Sudip K Rakshit	21	26

Student Research

There was a total of 82 Doctoral Dissertations in 2011. Masters Student Research for the same period stood at 629 from within the three schools. The breakdown of which is indicated in the table below.

SCHOOL/FoS	DOCTORAL STUDENTS' DISSERTATION	MASTERS STUDENTS RESEARCH				TOTAL MASTERS STUDENTS RESEARCH
		Thesis	Research Studies	Projects	Internships	
SET	26	187	45	52	8	292
CS/IM		11	3			14
CEIM			21		52	73
GTE	2	13	16			29
IME	4	11	6			17
Mech/MES	3	15	1			16
RSGIS	6	15				15
StE	1	28				28
TC	4	10	4			14
TrE	2	11	2			13
WEM	3	23	4			27
ICT	1	14	9			23
OTM		23			8	31
SERD	53	153	26		1	182
ASE	3	10				10
AARM	6	3	2			5
E	6	31	5			36
EEM	14	25	15			40
FEBT	6	20				20
GDS	1	11				16
NRM	7	11	1			12
PPT		8				8
RRDP	8	18	1			19
UEM	2	10	2			12
ABM		6				8
DPMM		7			1	8
GTD		5			1	6
SOM	3		16	125		141
TOTAL	82	352	88	177	10	629

SET	School of Engineering and Technology	TC	Telecommunications	FEBT	Food Engineering and Bioprocess Technology
CS/IM	Computer Science/ Information Management	TRE	Transportation Engineering	GDS	Gender and Development Studies
CEIM	Construction, Engineering and Infrastructure Management	WEM	Water Engineering and Management	NRM	Natural Resources Management
GTE	Geotechnical and Earth Resources Engineering	ICT	Information and Communications Technologies	PPT	Pulp and Paper Technology
IME	Industrial and Manufacturing Engineering	OTM	Offshore Technology and Management	RRDP	Regional and Rural Development Planning
MEC/MES	Mechatronics/ Mechatronics	SERD	School of Environment, Resources and Development	UEM	Urban Environmental Management
RSGIS	Remote Sensing and Geographic Information Systems	ASE	Agricultural Systems and Engineering	ABM	Agri-Business Management
STE	Structural Engineering	AARM	Aquaculture and Aquatic Resources Management	DPMM	Disaster Preparedness, Mitigation and Management
		E	Energy	GTD	Greater Mekong Sub-region Development Studies
		EEM	Environmental Engineering and Management	SOM	School of Management

AIT Master's Thesis Competition 2011

THE 6TH AIT Masters Theses Competition was held on the 16th of May 2011. There were seven competition categories (see below) and students with excellent grades in their theses were nominated to represent their respective fields of study. Theses presentations have been judged according to the relevance; originality; scientific/society contribution; general knowledge of the field; future potential for innovation; and presentation skills. A total of 40 students participated in the competition. There were 24 judges from industry, developmental agencies, international organizations, universities, etc. A number of spin of activities and possibilities including employment, projects, interaction with other organizations, press coverage, etc. from the competition.

The winners of the respective categories were the following:

CATEGORY	NAME / TITLE OF PRESENTATION	ADVISOR
Resources	Ms. Melada Supakijnoraset Antimicrobials from <i>Lactobacillus plantarum</i> Isolated from Turmeric (<i>Curcuma longa</i> linn.) and their Applications as Biopreservative and in Edible Film	Dr. Anil Kumar Anal
Civil Engineering	Mr. Michael Lim Coo Development of a Low-Cost Repair Concrete	Dr. Pennung Warnitchai Dr. Thanakorn Pheeraphan
ICT	Mr. Somchok Sakjiraphong Road Lane Estimation from a Moving Monocular Camera	Dr Matthew N Dailey
Development	Ms. Phitchaporn Robru Factors Influencing Rural Ruffian Gangster Activities in Rural Thailand: A Case Study in Social Development	Dr. Soparth Pongquan
Information Systems	Mr. Setyono Hari Adi Capacitive Deionization for Desalination with Zinc Oxide Nanorods	Prof. Joydeep Dutta
Management	Ms. Patarawan Chaowasakoo Coal Hauling Cycle Time and Operational Performance in Mining Industry: A case study of PT. Trubaindo Coal Mining, Indonesia	Dr. Winai Wongsurawat
Energy/Environment	Mrs. Helayaye Damitha Lakmali Abeynayaka Biofilters for mitigation of GHG emissions from waste sector	Prof. Ajit Annachhatre

ACADEMICS

Academic Quality

ADMISSIONS AND ENROLLMENT, MANAGEMENT IMPROVEMENTS

Applications Processing. The total number of applications received in 2011 totaled 2,384 (including satellite campuses), an increase when compared to 2010, when 2,191 applications were received. AIT issued 1,935 offers in 2011 compared to 1,867 offers in 2010. Incoming student enrollment was reduced to 874 in 2011 as compared to 918 in 2010. A per semester tally of the applications and enrollment statistics (postgraduate program) is presented in the table below.

Total Number (All Locations)	January 2011 Semester	August 2011 Semester
Applications Received	421	1963
Offers Processed	300	1635
Offers Confirmed	166	726
Enrolled Students	164	710

Application Tracking System. The on-line Application Tracking System (ATS), launched by the VPAA in September 2010, was further reinforced and fully applied in processing applications for the August 2011 intake. The option of on-line faculty evaluation of applications being processed in the ATS was also completed. Continued development is being undertaken with AIT's IT service provider, Netlink.

Revisions in AIT Application Forms. This is an ongoing initiative with the AIT Schools to further streamline and make the AIT application forms more user-friendly and easy to use.

New AIT Student ID Card. A new design of AIT Student ID card was implemented and used starting new students' intake of January 2011 semester.

Online Graduation Application System. The online system to better manage the graduation information and activities was implemented starting in Inter-semester 2011.

Creation of Database Management System (DMS). In coordination with Netlink, a Database Management System (DMS) was created for Student Office which allows storage and management of scanned records of all AIT students. This provides security to students' data and online access

of student files by Student Office staff. This system will be extended to be accessible to Field of Studies (FOS) Secretaries in the near future.

Doctoral Progress Review Committee (DPRC). The following academic policies/procedures were proposed by the DPRC and approved by the Academic Senate in 2011.

- Guidelines on plagiarism checking
- Revised the appointment letter for External Examiner (EE)
- The list of journals where publication is discouraged by DPRC was made available in the Academic Senate website <http://www.ait.ac.th/faculty-and-staff/academic-senate/journals-for-doctoral-research-publications>.
- A 'Publication Submission Form' was formulated.
- A Certificate of Originality for the doctoral program was formulated and later extended to the master program.

ONGOING INITIATIVES

These initiatives have already started in mid-2011 but due to the occurrence of flood in October 2011, these initiatives are ongoing.

- a. New Design and Numbering of all Registry Forms. In partnership with MCU, the VPAA initiated the consolidation of all forms issued by Registry. The MCU was requested to propose a standard design and assign number to each form. The revised forms will then be linked into SIS to allow students to fill them up online and directly submit to the concerned authorities.
- b. Digital Coding of Academic Records and Online Verification System. As the second phase of the Application Tracking System, Netlink was

requested to develop another system that links the application bar codes of admitted students to their academic records, such as transcripts, degree certificates and other types of certifications. The system aims to confirm the authenticity of academic records issued by Registry, to maintain records of how many copies have been released, and to allow online verification of records by screening companies.

- c. Development of Registry FAQ. An FAQ site has been initiated to allow students to get immediate answers to their academic inquiries.
- d. Online Doctoral Progress Report Form. Netlink has been requested to develop an online doctoral progress report form which will have the following features: (i) automatic filling up of different information that are available in SIS (i.e. personal info, program committee, date of advancement to candidacy, etc.); (ii) allow FoS Secretaries to fill up online the date of the progress meeting or select no progress meeting (this must be a required filled) in the online form; (iii) after the required fields are filled up, the FoS Secretaries to be able to print the form for the necessary signatures and comments from the Program Committee.

STUDENT OFFICE ACTIVITIES DURING THE FLOOD PERIOD IN 2011

The Student Office – Admissions/Scholarships/Invoicing, Registry, Undergraduate and Student Affairs, including the Career Center and Student Union – joined efforts to facilitate the move of students (on coursework) to the two temporary campuses set up at Stamford International University, Hua Hin, and Silparkorn University, Petchburi (both in Thailand) to complete the August 2011 semester.

-  **Arrival and pick-up of students from Bangkok to Hua Hin.** Helped formulate guidelines and procedures for arrival and pick-up of students from Bangkok to Hua Hin in coordination with the Student Union.
-  **Accommodation allocation to students in Hua-Hin.** Coordinated with the Schools and other administrative units in formulating policies and procedures for allocation of accommodation to students in Hua-Hin, and led the actual allocation of student accommodation to students in Hua Hin. (The allocation task was later transferred to Sodexo.)
-  **Academic calendar / Course timetable, room assignments in Hua Hin.** Adjusted the academic calendar, course timetable and room assignments, in coordination with the three Schools' Deans, while at temporary campuses in Hua Hin and Petchburi.

The Language Center

The year 2011 was eventful for the Language Center (LC) in several ways. One of the most interesting developments was the growth of the AIT Bridging Program from 9 May – 19 July, which boasted 40 new students representing 7 different nationalities entering 12 different fields of study at AIT in August.

In addition to the regular LC staff, these 40 students studied with AIT resource people (8 doctoral and 2 master's students) representing the various fields of study. Later in 2011, the AIT Professional Bridging Program was attended by 8 special students (two each from Cambodia, Lao PDR, Thailand and Vietnam) who are now working for the Mekong River Commission in various programs from the Delta to Luang Prabang, Lao PDR. This program was nearing its completion when all participants were suddenly thrust into returning home because of the flooding of the campus in October.

Sharing the 2011 flood experience with the LC staff were two new members of the Language Center. Though recently hired, both worked resiliently during the flood and quickly became valued members of the LC team. Ms. Juliette François, who teaches French for the AIT community and the undergraduate program, came to AIT through the auspices of the French Cooperation. Mr. Thomas Hamilton, who is finishing his doctoral degree in Applied Linguistics (Language Education) at KMUT-Thonburi, has been teaching and coordinating English Communication Skills and Technical Writing for the School of Engineering undergraduate program. Both taught numerous classes at AIT in Khlong Luang as well as in Hua Hin.

The LC was able to maintain its testing programs for nearly 2,000 test-takers throughout the year without interruption. Toward year's end, though, some test-takers in Thailand had to find their way on the Chulalongkorn University campus. The bulk of test-takers in various Asian countries from Afghanistan to Vietnam may have had no idea that their test was arranged and sent remotely from Nepal, then scored in Hua Hin, with scores set out to them from an office in Bangkok – virtually seamless thanks to the Internet.

Career Center

The AIT Career Center was established in November 2006 to assist students in making informed decisions by providing the resources, programs and counseling that will lead them to different career options, internship opportunities, part-time jobs, exchange programs and ideas for where to go best for further education. Its services revolve around (1) Career Counseling and Placement Assistance; (2) Student Assistantship/Internship Guidance; and (3) Further Studies and Exchange Program Counseling.

Highlights for 2011 included internships being promoted to corporate partners; targeted visits to companies to expand opportunities; networking with Chambers of Commerce; a Career Fair in March 2011 which attracted new collaborators;

improved publicity and promotional materials; and a Visit AIT Day along with the March 2011 Career Fair .

In 2011, the Career Center continued to visit companies to introduce AIT and explore job and internship opportunities for AIT students. The companies visited included: Symphony Communications, IUCN, Pasco, Siam Commercial Bank and BNP Paribas. The Career Center Team, along with the VPAA, visited the Federation of Thai Industries and several Chambers of Commerce which included the Japanese Chamber of Commerce, Franco-Thai Chamber of Commerce, Thai-Swedish Chamber of Commerce, the American Chamber of Commerce and the German-Thai Chamber of Commerce. The objective was to introduce AIT and Career Center activities and discuss possible collaboration

Fields of Study & Academic Programs

SCHOOL OF ENGINEERING AND TECHNOLOGY

Master's and Doctoral Degree Programs

Civil & Infrastructure

Engineering Group

- Construction, Engineering & Infrastructure Management
- Geotechnical and Earth Resources Engineering
- Structural Engineering
- Transportation Engineering
- Water Engineering & Management

Industrial Systems Engineering Group

- Industrial & Manufacturing Engineering
- Mechatronics
- Microelectronics and Embedded Systems
- Nanotechnology

Information & Communications Group

- Computer Science
- Information Management
- Remote Sensing & Geographic Information Systems
- Telecommunications

Interdisciplinary Programs

- Offshore Technology & Management
- Information & Communications Technologies
- Geo-Exploration & Petroleum Geoengineering
- Disaster Preparedness, Mitigation and Management (SET AND SERD)
- Urban Water Engineering and Management (SET, SERD)

Professional Master's Degree Programs

- Geo-System Exploration & Petroleum
- Geo-Technical Engineering & Management
- Hard Disk Drive Engineering Technology (Western Digital-Thailand)
- Industrial & Supply Chain Management
- Project Management in Construction
- Telecommunication Technology & Management

Undergraduate Degree Programs

- Chemical Engineering
- Civil and Infrastructure Engineering
- Computer Science
- Information Technology
- Electronics
- Industrial Engineering
- Information and Communication Technology
- Mechatronics
- Telecommunications

SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT

Master's & Doctoral Degree Programs

- Agri-business management
- Agricultural systems and engineering
- Aquaculture and aquatic resources management
- Climate change and sustainable development
- Energy
- Energy and environment
- Environmental engineering and management

on internships, research and consultancy. Out of these visits, six companies joined the 23 March 2011 Career Fair through the Japanese Chamber of Commerce, three via the German-Thai Chamber of Commerce and one through the Franco-Thai Chamber of Commerce.

The Career Center undertook relational marketing to staff in the three AIT Schools to update on proposed Career Center activities leading to the Career Fair on 23 March 2011. Discussions were also held with the different Field of Study Coordinators (FoS) to promote the Fair, Career Talks and the Open House. Thirty five companies came for the Career Fair on 23 March 2011, of which sixteen joined for the first time. An Open House, which attracted 86 students from Thai universities, took place simultaneously with the Career Fair in March 2011. With

the intention to showcase AIT's program offerings and to attract potential applicants, the undergraduate students appreciated the day's program which included career talks on 'Further Education through RTG Funding', "Drawing Your Career Path" and "Successful Job Interview Techniques".

Wednesday Career Talks were also organized throughout the year and company presenters included: Charoen Pokphand, Kyushu University, United Feed Mill, Regional Community Forestry Training Center for Asia and the Pacific (RECOFTC), Somboon Group, TomTom, Dumex, AAPICO Hi-tech and Rhino Research. A presentation was also made on the "The Importance of Communication in Leadership". New Career Center and Internship Desk brochures/packets were published for the January 2011 intake.

- Food engineering and bioprocess technology
- Gender and development studies
- Natural resources management
- Pulp and paper technology
- Regional and rural development planning
- Urban environmental management

Inter-School Academic Programs

- Disaster Preparedness, Mitigation and Management (SERD,SET)
- MBA in Energy Business (SERD,SOM)

Unified Bachelor's & Master's Programs

- Agri-business Management
- Energy
- Environmental Engineering and Management

Double Degree (1+1 Years)

- Urban Water Engineering and Management (SERD, SET)

Professional Master's Programs

- Environmental Engineering and Management
- Urban Management
- Water Technology Management
- Public Policy
- Aqua-Business Management
- Energy Business management

Two Stage Master's Programs (1+1 years)

- MBA in Energy Business
- Energy and Environment

Certificate Programs

- Integrated Coastal Management
- Greater Mekong Sub region Development Studies

Undergraduate Programs:

- Bio-Systems Engineering
- Environmental Engineering
- Chemical Engineering

SCHOOL OF MANAGEMENT

Master of Business Administration (MBA)

- Entrepreneurship
- Technology Management

- Sustainable Business
- Finance
- Human Resource
- Marketing
- Strategy
- Public Management

Professional Master's Degree Programs

- Banking and Finance
- Corporate Social Responsibility
- Intellectual Capital and Knowledge Management
- Technology Management
- MBA in Energy Business (SOM,SERD)

Executive MBA (EMBA)

- International Business-Management of Technology

Doctoral of Philosophy (Ph.D)

Doctor of Business Administration (DBA)

Inter-School Academic Programs

- MBA in Energy Business (SERD, SOM)

SCHOOL OF ENGINEERING AND TECHNOLOGY

THE School of Engineering and Technology is a unique and prestigious multicultural hub for higher learning in engineering and technology, offering state-of-the-art multidisciplinary programs and cutting-edge research in partnership with industry for the sustainable growth of the region. SET aims to educate students to become key implementers in today's global society,

challenged by their careers and rewarded by success. In 2011, SET focused on global partnerships and partnered with institutes from India, Japan, Korea, Nepal, Thailand, and Taiwan among others. Most of the partnerships focused on exchange programs, joint research, 1+1 programs and 2+2 programs.



THREE THEMATIC AREAS OF STUDY UNDER THE SCHOOL OF ENGINEERING AND TECHNOLOGY

Civil & Infrastructure Engineering Group

Civil engineering is the oldest engineering disciplines in history. It is also one of the oldest thematic areas started in AIT. Each field of study under the Civil Engineering thematic group has a unique system of learning through research study.

Industrial Engineering Group

Recognized by the Intelligent Manufacturing Systems (IMS), Industrial Systems Engineering (ISE) enjoys a high rate of top level employment and top ranking world-wide. ISE graduates are normally in high demand in industry, consulting firms and government organizations. ISE currently offers three fields of study (IME, Microelectronics and Mechatronics).

Information and Communication Group

The Information and Communication Group will continue to evolve as organizations cope with the proliferation and complexity of new information technologies and services. All the fields of study under Information and Communication Group are essential resources for academic excellence, competitiveness in business and industry, scientific progress, and national development. Like any other resources, information must be managed. They are widely recognized as supporting tools for the planning, monitoring, and management and utilization of resources at the country, regional and global levels.



SCHOOL OF ENGINEERING AND TECHNOLOGY

NORTH ACADEMIC BUILDING

NOTABLE ACHIEVEMENTS

AIT stands out in Research Rating from Thailand Research Fund (TRF)

AIT received a research output rating from the Thailand Research Fund (TRF) for 2007-2008, as follows: Civil and Infrastructure Engineering, (2) Industrial Engineering, (3) Information and Communication Technology received the top rating of 5. The TRF Rating is based on the weighted average varied from 5 to 1 of the following four factors: (1) Equivalent international journal papers per faculty member (30%), (2) Journal impact factor per faculty member (20%), (3) Total equivalent international journal papers for the entire subject cluster (30%), and (4) Total journal impact factors for the entire subject cluster (20%). AIT stands out in all "per-head" categories, i.e., Factors (1) and (2), and this implies the highest order of research efficiency and quality of individual faculty members of AIT. Despite the disadvantage of Factors (3) and (4) compared with other more comprehensive universities

KEY RESULTS

In 2011, SET had approximately 894 postgraduate students and 131 undergraduates for a total of 1025. A total of 214 students graduated. In 2011, SET had 97 full-time faculty members and adjunct faculty members, and 22 seconded visiting faculty. SET conducted 33 sponsored research projects in 2011 valued at approximately 52 million Thai Baht.

NEW ACADEMIC PROGRAMS

Undergraduate Programs in Industrial Engineering and Computer Science were launched in 2011, as was a Unified Bachelor and Master Program with Chiang Mai University on Geoinformatics. A Unified Bachelor and Master Program with Jawaharlal Nehru Technological University Kakinada (JNTUK), India, was launched during the year.

PARTNERSHIPS AND JOINT PROGRAMS

SET and the Graduate School of Engineering of the Hokkaido University (HU) agreed to partner on a Dual Master's Degree Program. The first batch of students under the joint program will start with the Transportation Engineering Field of Study.

India

MoU with SHIATS

Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS), Allahabad, India, signed a Memorandum of Understanding (MoU) under which various activities will be carried out between two institutes such as short and long-term faculty exchanges, collaborative academic and research programs, exchange of scientific information and organizing joint academic events such as seminars / workshops and conferences.

MOU Signed with JamiaMillialIslamia, a Central University

Memorandum of Understanding (MoU) signed with JamiaMillialIslamia (JMI), a Central Univer-

sity, New Delhi, India. Under this MoU, both the institutes will carry out various activities such as organizing joint international Workshops, Seminars and Symposia focusing on Science and Technology Development in India and in the region; faculty/student exchange programs between JMI and AIT; conduct joint-training programs; jointly apply for funds from the Indian government and international organizations and conduct sponsored research projects and joint supervision of Doctoral and Masters-level research projects.

The Jawaharlal Nehru Technological University Kakinada (JNTUK)

A MoA with JNTUK-AIT was struck for cooperation for a unique International Integrated Master’s Degree Program, in which the Bachelor and Master’s degrees are integrated. It will prepare a trained batch of future JNTUK-AIT researchers for quality research in dedicated fields. The program will focus on emerging areas to attract an exclusive class of students. The objective of the MoA is to offer a Five-year International Integrated Master’s Degree Program (IIMDP)’.

Japan

MoA with Hokkaido University

The School of Engineering and Technology (SET) signed a Memorandum of Agreement (MoA) with the Graduate School of Engineering of the Hokkaido University (HU) to start a dual master’s degree program. The Transportation Engineering (TRE) field of study will be the first field of study from SET to enter into this program. The program was expected to start from the August 2011 intake. This is the first dual degree program AIT’s had with Hokkaido University.

Korea

MoU with Pukyong National University

The Memorandum of Understanding (MoU) signed with Pukyong National University and AIT. The activities under this MoU will be faculty and student exchanges, exchange of information of research education and exchange of scholarly publications, academic journals, teaching materials and other general information which may

promote the academic welfare, and scientific research of the institutions and joint research project. At first, the above activities will focus on information systems (GIS), global navigation satellite system (GNSS), remote sensing (RS), location-based service (LBS), and geospatial sciences within the RS-GIS Field of Study of the School of Engineering and Technology (SET) and Specialized Graduate School of Spatial Information Engineering of PKNU. PNUK has shown interest in double degree programs and the transportation field of study.

Nepal

Kathmandu University

Kathmandu University (KU), Nepal, on March 30, signed a MoU to enable cooperation with AIT to provide international quality higher education opportunities to the people of Nepal and other countries in the region. The MoU was seen as a stepping stone to strengthen and capitalize on the continued goodwill between the institutions. A possibility exists for starting a 2-stage master’s program, including double degree programs in the areas of Mechatronics, Water Engineering and Management (WEM) and Computer Engineering.



Nepal Education Foundation – Consortium of Colleges

Nepal Education Foundation – Consortium of Colleges, Nepal signed a MoA for collaboration in Two- Year Collaborative International Master's Programs in field of Science and Engineering. The program is to be more accessible and affordable to students, allowing them to experience and be exposed to the teaching, research and academic life and rigor of both institutions. The programs will promote AIT- NEF-CCN cooperation, and will produce, in specific fields, trained and qualified professionals, who will be conferred the AIT master's degree.

Partnership Agreement with Hydro Lab Pvt. Ltd

A MoU was signed with Hydro Lab. Pvt. Ltd. Hydro Lab is keen on mutual sharing of technical expertise and research facilities with AIT, and also wishes to create a partnership for consultancy work related to hydraulic studies and river works. They are keen to offer student internships and exchange of staff, apart from other academic and educational exchanges.

Thailand

Partnership with Rangsit University

A Memorandum of Agreement (MOA) between AIT and RSU on the Unified International Bachelor and Master Program in the field of Engineering and Technology was signed.

AIT and Thailand's Metropolitan Waterworks Authority (MWA) jointly launch Professional Master Program in Water Technology and Management

A Memorandum of Agreement (MoA) for the new professional program to begin in 2011 was signed during the year. The program offered at AIT targets middle and senior level managers working at metropolitan and provincial water authorities who are interested in improving their technical knowledge in the field of water technology and management. Through the agreement, MWA will coordinate with the Royal Thai Government (RTG) and Thailand International Development Cooperation Agency (TICA) to secure at least 15 professional Master's scholarships

over a period of five years from 2011-2016. AIT is delighted and honored to be starting a new chapter of collaboration with MWA and this collaboration to launch a professional Master program is very much in the line with AIT's strategy to better serve the human resources capacity needs of Thailand and other member countries of the institute.

Taiwan

MoA – National Taiwan Ocean University

MoA signed with the National Taiwan Ocean University (NTOU) in Keelung, Taiwan, to collaborate in Unified International Bachelor-Master's Program with AIT

The Unified Program will operate into two phases: four years of bachelor studies in NTOU and one year master's studies in AIT. NTOU will offer Bachelor of Engineering (B.Eng.) in Harbor and River Engineering, Optoelectronic Sciences, Computer Science and Engineering, and Communications Navigation and Control Engineering. Consequently, NTOU was interested in AIT offerings such as: Master of Engineering (M. Eng.) in the areas of Water Engineering and Management (WEM), Nanotechnology, Computer Science (CS), and Telecommunications (TC).

POSITIONING AND BRANDING

In 2011 SET listed target countries as Bangladesh, Bhutan, India, Indonesia, Myanmar, Nepal, Thailand and Vietnam. SET programs are promoted extensively each year in these countries to improve enrollment. The top five recruiting strategies for attracting traditional students included campus visits, details about fields of study, the marketing through the SET website, university visits, high school visits, and faculty contacts. Traditional students are attracted to campuses based on convenience and support service. In 2011 SET visited Nepal for school promotional activities and student recruitment and the outcome was positive. A two-week summer training program with United Group of Institutes was a success and received a good feedback from the 30 students who participated.

FIELD OF STUDY IN SPOTLIGHT

CSIM

In 2011, the Computer Science and Information Management program continued its mission of regional capacity building in information technology. Besides continuing its master and Ph.D. degree programs in computer science, information management, and software engineering, CSIM strengthened its undergraduate B.Sc. degree offerings in computer science and information technology. CSIM had active student exchanges with Telecom Sud Paris and Polytech Nice-Sophia in France. It also developed a new dual doctoral degree program in Knowledge Science with the Japan Advanced Institute of Science and Technology (JAIST), an outstanding Japanese international graduate education and research institute. Students entering this program will spend two years at AIT and two years at JAIST and will receive two doctoral degrees on completion of the program. The focus of the program is in the emerging area of service science. Students from all countries are eligible, and Thai students entering the program are further eligible for direct scholarship support from the National Electronics and Computer Center (NECTEC). CSIM admitted the first students into this program and plan to further expand the program in 2012. In 2012 CSIM plans to expand into IT management; and will offer a Professional Master's degree in Information Technology Management.



SCHOOL OF ENVIRONMENT, RESOURCES AND DEVELOPMENT

THE School of Environment, Resources and Development (SERD), which was established in 1993 by amalgamating the Divisions of Agriculture and Food Engineering, Environmental Engineering, Human Settlements and Energy Technology, is now composed of twelve fields of study, namely:



Agribusiness Management, Agricultural Systems and Engineering, Aquaculture and Aquatic Resources Management, Energy, Energy and Environment, Environmental Engineering Management, Climate Change and Sustainable Development, Food Engineering and Bioprocess Technology, Gender and Development Studies, Natural Resources Management, Pulp and Paper Technology, Regional and Rural Development and Planning and Urban Environmental Management.

The School offers academic programs relevant to regional needs and which are also responsive to students' interests. SERD has been successful in responding to regional needs by mobilizing and enhancing capacities for socially, economically and environmentally sound development in partnership with the public and private sectors.

Under the management of Dean, the three Associate Deans, Faculty and Staff members of the School completed a successful year in 2011. It was a year of challenges and achievements. SERD initiated new academic programs which included the launch of new degree programs and partnerships with several universities in and outside the region.

Some key academic developments included the following:

- A Master Degree Program in Climate Change and Sustainable Development (CCSD) was launched in August 2011 semester, focusing on the following areas: climate science, climate change mitigation and climate change vulnerability and adaptation.
- Master in Business Administration in Energy Business and Professional Masters in Energy Business Management
- Professional Master Program in Environmental Engineering Management (P-EEM) in Vietnam
- Certificate Program in Aquaculture and Aquatic Resources Management (AARM) with IUCN





- Professional Master Degree Program in Water Technology Management with Metropolitan Waterworks Authority of Thailand and Thailand International Development Cooperation Agency (TICA)
- Professional Master Program in Urban Management with Ho Chi Minh University of Architecture, Vietnam.

PARTNERSHIPS AND JOINT PROGRAMS INITIATED:

- Establishment of Center of Excellence with John Deere India Private Limited, India, for research and sponsored projects.



- Certificate Program in Regional and Rural Development Planning (RRDP) was offered to 60 students from Kalinga Institute of Industrial Technology (KIIT) in January semester 2011, and later for 55 students in Inter-semester 2011.
- Agri-business Management (ABM) partnered with the Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS) to create a Unified Bachelor and Master program, which was launched in August 2011.
- MoA between SERD and Myanmar Computer Company limited (MCC) was signed in July 2011 for four-year Collaborative International Bachelor Degree Programs offered by AIT-SERD.
- MoU/MoA initiated for Unified Bachelor and Master's Program with Rangsit University for Energy and also Environmental Management with South Asian Institute of Technology and Medicine (SAITM), Sri Lanka for Bachelor Degree in Environmental Engineering.

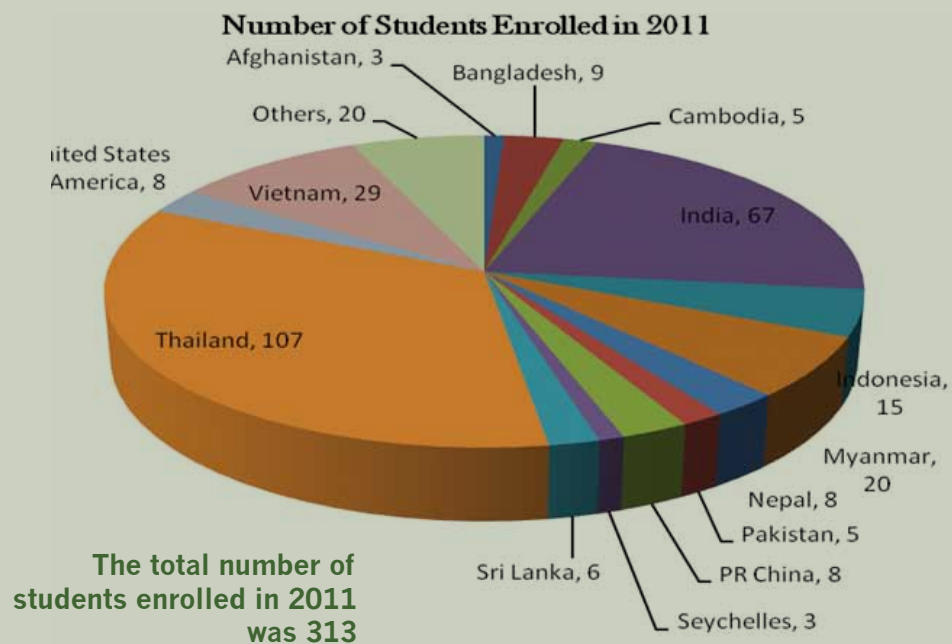
PROMOTIONAL ACTIVITIES

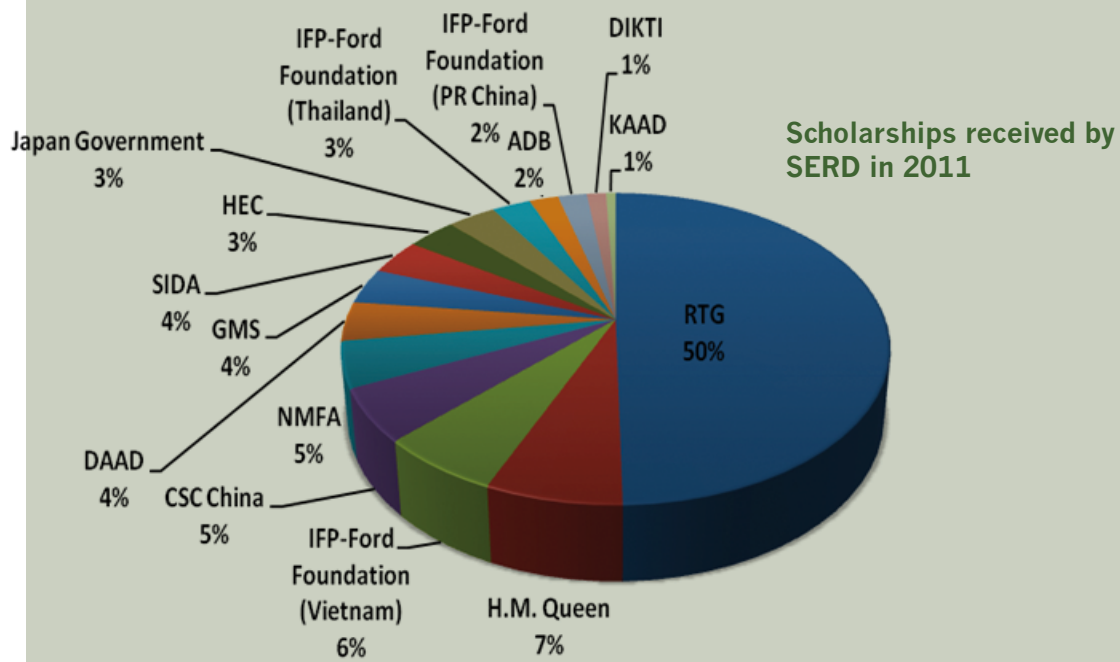
A new website for SERD was designed and launched on November 2011. The website was designed with the objective of communicating and providing the latest detailed information about the School to the public. The target countries for promotions and student recruitment activities were Myanmar, China, Nepal, Thailand, Vietnam, Pakistan, Lao PDR, Indonesia, Cambodia and Sri Lanka. SERD also made promotional tours to a number of Thai universities to explore further collaboration and partnerships in terms of academics and research. The school participated in symposiums, exhibitions, talk shows and conferences in Japan, China, Thailand, India and Myanmar. SERD advertised in Thailand's English and Thai newspapers, magazines and student handbooks all through the year.

RELOCATION ACTIVITIES

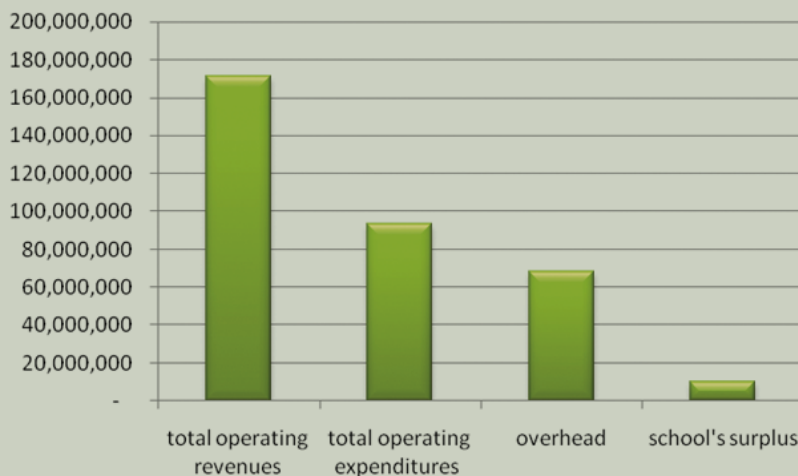
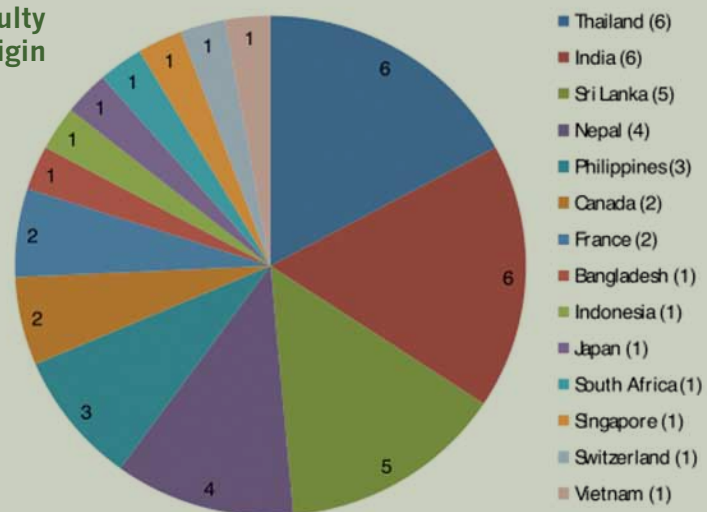
The end of year was very challenging, but the School was able to take up the challenge of salvaging operations and restoring things to a situation of some degree of normalcy. During the period when the whole campus was flooded for almost three months, forcing the large-scale evacuation of all students, faculty, staff and residents, SERD was able to conduct classes and administrative activities efficiently at Silpakorn University, Phetchaburi Information Technology Campus, SEATEC, Prakhonong (in Bangkok) and at the Pollution Control Department in Bangkok.

FACTS THROUGH FIGURES





Composition of faculty members by number and origin



Financial Status 2011

KEY RESULTS

A total of 313 students were enrolled in the January, Inter – Semester and August 2011 semesters, and 200 students graduated in May and December 2011. The school consists of 35 full-time and 28 visiting / adjunct faculty who together represent 14 countries. A total of 35 sponsored research projects were initiated in January – December 2011, with a total budget of approximately Baht 87 million. (Overhead accounted for more than Baht 6 million.) Cost control measures contributed to the School generating a surplus of Baht 10.20 million, after the AIT overhead allocation of 40%.



SCHOOL OF MANAGEMENT

THE School of Management (SOM) is one of the Asian region's leaders in management education and research. SOM provides exceptional individuals with a supportive environment in which they can develop their skills and aptitudes, helping them to reach their professional goals and to serve the interests of countries in the Asia-Pacific region. The School's core strength lies in tailoring entrepreneurship and leadership education to match local needs, and in expanding Asian entrepreneurship concepts to other regions.



The School has continuously diversified to match the needs of the market. Besides its academic MBA and PhD programs, the School also runs highly successful Executive MBA (EMBA) and Doctor of Business Administration (DBA) and Professional Masters Programs. The School is dedicated to producing managers who can drive their organizations to prosperity and profitability without compromising ethics and social responsibility.

In 2011, the School was comprised of 11 full-time faculty members and 25 adjunct/visiting faculty members from 16 countries. With an increasing diversity in its student and faculty bodies, the School of Management has been able to recruit students from diverse regions of the world. During the year SOM welcomed 20 exchange students from Asian and European partners in France, German, Finland, Denmark, Korea, and India.

SOM continued to build and strengthen its linkages with the professors by developing strategic partnerships with both public and private sectors through its executive development and research projects. Managers from the corporate sector were invited as guest speakers to provide better insight to the SOM students. SOM students also undertook field visits to various corporations to see first-hand the implementation business knowledge.

NEW PROGRAM INITIATIVES 2011

New programs of SOM in collaboration with other AIT Schools and Centers:

Professional Masters in Banking and Finance (PMBF)-launched in March 2011

The Professional Masters in Banking and Finance is a program intended to satisfy the advanced learning and development needs of banking professionals in the region. It is intended to be run out of AIT as a joint program of the AIT Extension and the School of Management.





Professional Masters in Corporate Social Responsibility (PMCSR)-launched in August 2011

The objective of the Professional Master in CSR is to provide mid to senior level managers with professional competencies and skills in the fields of sustainable development and CSR. This will help to ensure that the business sector can manage the challenges associated with climate change responsibly and contribute to the achievement of targets such as the Millennium Development Goals in a dynamic, competitive business environment

Professional Masters in Management to be started by IEMBA-VN in Cantho province of Vietnam in 2012

The School of Management (SOM) of AIT in collaboration with AIT in Vietnam (AITVN) offers Professional Master Program in Management (PMM) for managers and executives of the private and state own companies and public organizations (including NGO and international organizations). The aim of this program is to impart relevant knowledge, skills and attitudes and prepare working executives to accept higher level responsibilities in their employing institutions. The emphasis is to help management professionals enrich their own experiences with a solid understanding of the fundamental management functions through case study based and action-oriented learning process.

SPONSORED RESEARCH PROJECTS

The 3rd Public Management Executive Development Program, which was coordinated by SOM Faculty member Dr. SununtaSiengthai, was conducted from 15-30 August 2011. The objective of this training program was to develop the appropriate level of competencies and knowledge-base of the high-level officials in public management of the Ministry of Interior of Thailand, especially those who are currently Vice Governors. It was designed to enhance their effective performance with a focus on aspects such as effective leadership and ability to provide advice and consultancies with respect to their work and emerging problem issues within their scope of job responsibility.

The School project on “Strengthening Regional Capacities to Respond to Consumer Demand through Marketing Research Tools”, which was spearheaded by SOM Faculty member, Dr. Rian-Beise-Zee, was funded by FAO in 2010/2011. A national workshop was organized by each partner (China, Vietnam, Laos and Thailand) to inform and raise awareness of local stakeholders about market research techniques and to discuss regional strategies to help develop competitive agro-industries responding to consumers’ demands. The FAO Regional Conference for Asia and the Pacific and the Global Agro-industries Forum have put fostering competitive agro-industries to respond to food quality and safety concerns in a context of booming regional trade on the policy agenda for the region.

BUSINESS PLAN COMPETITION

The business plan competition was held on August 29, 2011 and the judges for the event were Dr. PreechaSwasdpeera, Chair, International Association of Financial Consultants (Thailand) and SOM alumnus; Dr. Barbara Igel, Dean, SOM; and Mr. Ashish Narayan, Advisor, International Telecom Union (UN) and SOM alumnus. The participating students were awarded cash prizes of Thai Baht 5,000 and all students received certificates. The prizes for this year's competition was sponsored by Mr. DharendraSood, MBA Alumnus 1992 (Thai Baht 100,000) and Mr. Herbert Vongpusanachai, MBA Alumnus 1991 (Thai Baht 100,000). Next Year's SOM Homecoming Day will be on September 8th the second Saturday of the month.

DOCTOR OF BUSINESS ADMINISTRATION (DBA) GRADUATES FIRST PARTICIPANTS

The Doctor of Business Administration (DBA) program, the School of Management's innovative part-time, professional doctoral program, recently graduated its first three participants.

Dr. PreechaSwasdpeera, Thailand Chair of the International Association of Registered Financial Consultants, wrote his dissertation on saving behavior of Thai workers. Dr. WorataKongseanitsara, Chairman of Holistic Medical Center, investigated Capital Allocation in Capital Intensive

Firm. Finally, Dr. Chih-Hung Chen of the National Yun Lin University of Science and Technology wrote his thesis on corporate social responsibility in Taiwan.

Many other program participants have successfully published their research in reputable, international journals. The School of Management looks forward to congratulating additional new DBA graduates who are scheduled to complete their degrees in the upcoming semesters.

EXECUTIVE MASTER OF BUSINESS ADMINISTRATION (EMBA) BANGKOK PROGRAM RESIDENTIAL WEEK

The EMBA Bangkok program organized a very successful residential week for the participants in HuaHin from December 5-9, 2011. The theme of the residential week focused on Corporate Social Responsibility in organizations. The week-long program included visit to the PTT CSR Center "SirinathRajini Center". This center works to restore the mangrove ecosystem. The participants commented that the program was very useful and the knowledge gained could be implemented in their organization. Besides the visit the students also engaged in assignment and projects related with CSR and completed the presentation of their assignment and projects.



UNDERGRADUATE PROGRAMS

THE School of Engineering and Technology's undergraduate (UG) programs further expanded and were strengthened by a thorough curriculum revision to make the programs consistent with each other and to make them compatible with the accreditation requirements of the engineering council of Thailand.



In addition to accreditation by the ABET international accreditation body, the program plans to apply for accreditation by the engineering boards in each of the countries the program draws students from. During the year, Industrial Engineering was added as program, bringing the number of UG programs in SET to eight (8).

The first UG batch entered its third year of study, and the students already at the Bangkok campus were complemented by the arrival of the first group of third-year students from our 2+2 partnership with the South Asian Institute of Technology and Medicine (SAITM) in Sri Lanka.

The second UG batch entered their second year of study with parallel groups at the Bangkok campus and SAITM. The program also admitted the third batch into the first year, with parallel groups at AIT Bangkok, SAITM, and now the MCC Training Institute in Myanmar. In total, the UG program now has 135 students on the AIT campus and over 250 students at partner institutes in Sri Lanka and Myanmar. In 2012, the number of students on campus will approximately double, and AIT will start a third 2+2 program in Nepal.



AIT EXTENSION

MOST SUCCESSFUL YEAR TO DATE

As the continuing executive and professional education center of the Asian Institute of Technology, AIT Extension identifies and responds to regional opportunities for continuing education, capacity building, short-course training and consultancy services, and thus helps realize AIT's mission to develop highly qualified and committed professionals who will play a leading role in the sustainable development of the region and its integration into the global economy.

This year AIT Extension's operating programs included: Agriculture and Food Processing; Environment and Natural Resources Management; Education and Training Development; Poverty Reduction and Livelihoods Development; Business Performance, Management and Strategy; Development Effectiveness; Public Sector Services and Management; Private Sector Development; Information and Communication Technologies; Information and Communication Management; Infrastructure Develop-

ment and Public Utility Management; Seminar and Study Visit Programs.

In 2011, AIT Extension hosted 87 specialized capacity-building courses customized to the professional development needs of governments and organizations. Despite the flooding of the AIT main campus in October, and the relocation of operations to central Bangkok, AIT Extension was able to carry on with its work plan largely uninterrupted, and by year's end had enjoyed its most successful year to date in terms of overall business development and operational growth.

NETWORKING WITH PEER INSTITUTIONS IN THAILAND

As AIT's inter-disciplinary knowledge hub, AIT Extension has, over the years, offered a number of health-care trainings. In early 2011, AIT Extension's Development Management (DM) team, working closely with colleagues from the Public Sector Capacity Building (PSCB) unit, identified Healthcare Systems as a priority area for strengthening AIT Extension's outreach capacity. Experts in peer institutions such as Chulalongkorn, Mahidol, Thammasat and Chiang Mai Universities, the Ministry of Public Health and the Bangkok Metropolitan Administration (BMA) responded enthusiastically to AIT Extension's proposal for collaboration. Consequently, the senior management of AIT Extension met with the Dean and faculty of the College of Public Health, Chulalongkorn University and agreed to collaborate in co-developing and delivering healthcare courses, including an Advanced Professional Program in Healthcare Systems.

PROFESSIONAL MASTER'S IN BANKING AND FINANCE (PMBF): MEETING THE SKILLS NEEDS OF BANKING INDUSTRIES



ment and Public Utility Management; Seminar and Study Visit Programs.

Responding to ever increasing demand by industry for applied management and banking expertise, AIT Extension advanced a platform in Professional Master's in Banking and Finance (PMBF), a program jointly

offered with AIT's School of Management and the University of Applied Sciences Northwestern (FNHW), Switzerland.

The program was formally launched on 14 March 2011. The first batch of participants comprised 21 bankers from Bangladesh Bank, which is the central bank of Bangladesh. The idea was actually designed in consultation with regional employers.



At the launch, Dr. Atiur Rahman, Governor, Bangladesh Bank, mentioned that the program would help the young bankers emerge as future leaders. He noted that AIT is a world-class Institute and this type of program would contribute towards their aim of ensuring that Bangladesh Bank is perceived as a world-class bank.

The PMBF program is co-designed with professionals from the field who have strong links to industry and the service sector, and are customized as per the needs of each sector. The curriculum includes case studies that reflect participants' knowledge and experience, providing a balance of theory, and practical skills for enhancement of personal and professional development.

PROJECT PAKISTAN: "DENGUE EPIDEMIC PREVENTION, CONTROL AND MANAGEMENT PROGRAM" (DEPCAM)

One example of AIT Extension's continuing efforts at building capacity to enhance AIT's overall regional development impact was the "Dengue Epidemic Prevention, Control and Management Pro-

gram" (DEPCAM) which concluded on 24 December 2011 in Bangkok, with top experts from Thailand, Sri Lanka and Pakistan in attendance.

While visiting Pakistan on a planned mission, Dr. Jonathan Shaw, Executive Director, AIT Extension and Dr. Faiz Shah, Head, Development Management Unit, AIT Extension, presented a proposal for DEPCAM to the Government of the Punjab, Pakistan, in order to respond to what experts considered as one of the world's major dengue epidemics. Upon their return, AIT Extension mobilized the "Healthcare Resource Group" (HRG) and confirmed the Punjab Government's requirements for an integrated epidemic control and management-training program which could be met through HRG's existing expert resources. In response, the Bureau of Vector Borne Disease Control, Thailand immediately identified locations and experts who could join the HRG initiative.



Consequently, an advance party from the Punjab comprising Mr. Abdullah Khan Sumbal, Secretary Special Education, and Director of the "Punjab Resource Management Program" (PRMP), and Dr. Waseem Akram, Chair of the Chief Minister's Dengue Research Program and Associate Professor of Entomology at the Agriculture University, Faisalabad, visited AIT Extension.

sion. The Punjab mission was introduced to the proposed program faculty and visited identified training facilities in Bangkok, Chiang Mai and Colombo, Sri Lanka. The DEPCAM program received approval from the Punjab Government at the end of October 2011. This process culminated with three professional cohorts comprising 97 participants, led by Mr. Sajjad Hotiana, Secretary Environment, Punjab, and Mr. Omar Mukhtar Khan, Deputy Director, PRMP, arriving in Bangkok on 4 December 2011 to attend the intensive three-week training program. Feedback from participants representing all cohorts indicated DEPCAM to have been a success.

AIT EXTENSION REPRESENTATIVE OFFICE: NEPAL

AIT Extension has been providing institutional support to run AIT Extension Representative Office in Nepal since 2010. The last two years saw significant development in AIT Extension activities that were arranged for Nepal through the office.

In addition to an increase in the number of training programs, the representative office has also contributed to a substantially increased AIT presence in Nepal. In recent years, the representative office has tendered several proposals to different clients on various areas of AIT Extension expertise. The facility is AIT Extension's liaison office for negotiations, business exploration and marketing activities, and in conducting meetings, workshops, and promotions.

In 2011, twelve different training programs from Nepal were confirmed which were customized as per the specific needs of Government ministries, departments and institutions. Of these, ten programs were successfully completed and the remaining two were planned for 2012. The total number of Nepalese participants received by AIT Extension in 2011 amounted to 205; a figure which included MBA students from notable colleges. The number is expected to rise in 2012. AIT Extension Representative Office in Nepal worked closely with Office of the Prime Minister and Council of Ministers to materialize new capacity building initiatives in the future.

PARTNERSHIP WITH THE MINISTRY OF PUBLIC ADMINISTRATION (MOPR), PEOPLE'S REPUBLIC OF BANGLADESH



AIT Extension coordinated a comprehensive professional capacity development program on "Preparing the Next Generation of Leaders for the Challenges of 21st Century Bangladesh". Four distinct programs –of one-month and three-month's duration – were entirely customized for mid-level Bangladeshi Civil Servants (BCS Cadre Officials) working under various ministries, public sector organizations, national institutes and local government organization/departments.

Around 130 officials in four different batches were trained in 2011 at the AIT campus through the program initiated by the Agriculture, Resources and Environment Unit of AIT Extension. The program aimed to strengthen participants' knowledge, perspectives and awareness on the 21st Century's emerging issues related to public policy changes / reform, environmental management and sustainable development, and rapidly evolving information technology. Overall objectives included widening the participants' capacity and skills in formulating practical strategies, increas-

ing participation in public policy reform initiatives and developing highly effective leaders in public services to manage the 21st Century's public organizations more efficiently. The project was funded by MoPR under a project called "Strengthening Government through Capacity Development of the BCS Cadre Officials".

SOME OTHER NOTABLE HIGHLIGHTS:

In December 2011, a number of high-level Sri Lankan officials attended a seminar-cum-study tour on Agriculture Systems, Agro-Tourism and Tourist Industry in Hanoi, Vietnam, that was jointly organized by AIT Extension and the Center for Participatory Irrigation (CPIM), Vietnam.

Eleven senior government officials from Sri Lanka comprising Chief Ministers, Governors, Chief Secretaries, Private Sector Representatives and Secretaries from various Ministries joined the program. The study tour provided a platform for international knowledge sharing and collaboration amongst the participants to brainstorm current issues, policies and technologies affecting the management of the agro-tourism and mainstream tourist Industry.

The year 2011 also saw a partnership between AIT Extension and German International Cooperation (GIZ). The affiliation endorsed AIT Extension to assist in GIZ's initiative on Sustainable Port Development in the ASEAN Region, which is in cooperation with ASEAN Ports Association (APA) and the Partnership in Environmental Management for the Seas of East Asia (PEMSEA). The project supports selected ASEAN ports to create capacities and competencies in terms of the human resources necessary to achieve and maintain quality and sustainability in the safe management of ports.



AIT CONSULTING

MAJOR ACTIVITIES IN 2011

AIT Consulting was involved in various major activities ranging from writing proposals, carrying out various projects, conducting trainings, and participating in forums and exhibitions. In terms of projects, AIT Consulting had the opportunity to submit 92 proposals and initiate 51 projects. In addition, AIT Consulting signed 8 Memorandum of Understandings with different partners and clients and had the honor of 49 distinguished guests formally visiting AIT Consulting.

In 2011 AIT Consulting had the opportunity to work with distinguished associates to initiate 51 projects, 28 of which were ongoing in 2012. AIT Consulting was able to initiate projects in 3 areas of expertise, namely Technology (Information technology, Geographic information systems and Pulp and paper technology); Engineering (Structural engineering and Geo-technical engineering) and Environment (Energy). Most projects initiated, namely 28, were from the Philippines, 9 were from Bangladesh, 9 from

Thailand and 1 each were from Pakistan, United States of America, Afghanistan, Australia and Nepal.

SALIENT PROJECTS IN 2011

Seismic Performance based Evaluation of Park Terraces Tower 2

The Park Terraces, Ayala Land Premier's three-tower development residential enclave, was launched in January 2010. The building towers located in the Philippines' main business center, accommodating hotels, residences and retail, are the first in the country to use the Buckling Restrained Bracing (BRB) structural system. The BRB approach, used in steel and concrete construction projects, enables a structure to be put up without beams, using only slabs and eliminating constraints in utilities and chases, providing earthquake and seismic resistance. AIT Consulting has been working through its client Sy² + Associates Inc. on the Seismic Performance-Based Evaluation of Ayala Land Premier's Park Terraces Towers. In August 2011, AIT Consulting continued to work on the Park Terraces project of the 62-storey 2nd Tower, which is 12 floors taller than the first tower, totaling 187m. The main objective of the work carried out by AIT Consulting was to design the building using a performance-based approach for seismic design



with predictable and safe performance when subjected to earthquake ground motions. AIT Consulting was also responsible for the incorporation of the BRB modeling in the design, in order to enhance the performance of the buildings.

Structural Performance-based Evaluation of Milano Residences



Milano Residences is a development of Century Properties, one of the largest real estate firms in Asia and the largest privately owned real estate firm in the Philippines. Milano Residences is located in Century city, Makati, the heart of Philippine's Central Business District. AIT Consulting worked through its client Sy² + Associates Inc. on the Structural Performance Based Evaluation of the Milano Residences. The main objective of the work was to review the performance of the structural system and design of the building in terms of suitability of the structural system, with special emphasis on the effects due

to wind, different levels of earthquake and other applicable demands.

Promoting Renewable Energy, Clean Fuels and Energy Efficiency in the Greater Mekong Subregion Technical Assistance-ADB

Due to the importance of promoting renewable energy, clean fu-

els and energy efficiency development, the Greater Mekong Sub-region (GMS) countries (Cambodia, China, Laos, Myanmar, Thailand, and Vietnam) adopted the Road Map for Expanded Cooperation in the Energy Sector during the 15th GMS Ministerial Conference in June 2009. To realize this plan, the Asian Development Bank (ADB) assigned Lahmeyer International as lead consultant for technical support, in a Technical Assistance (TA) project titled Promoting Renewable Energy, Clean Fuels and Energy Efficiency in the Greater Mekong Sub-region. The project aims to provide direct support as well as to reinforce the GMS countries' climate change mitigation efforts through investment facilitation and transfer of sustainable and environmentally friendly energy supply options. In addition to this, the TA project supports sustainable economic growth, which is the core strategic area of ADB's Strategy 2020, and complements all the crosscutting themes such as promoting the role of the private sector in development, supporting regional cooperation and integration for development, and addressing environmental sustainability. In September 2011, AIT Consulting was requested to assist in the TA project under the leadership of Prof. Sivanappan Kumar, one of the project 'slead researchers and experts. Prof. Sivanappan Kumar is a Renew-

able Energy Specialist and a Professor at the Asian Institute of Technology (AIT).

Bann EUR-ARTHON Project, National Housing Authority of Thailand

The Bann Eur-Arthon Project belongs to the National Housing Authority, Ministry of Social Development and Human Security. The National Housing Authority (NHA) was formed in 1973 as a state enterprise, originally under the supervision of the Ministry of Interior. Now under the Ministry of Social Development and Human Security, the NHA currently plays a significant role in developing and providing low-income housing to large numbers of Thai people, under the guidance of strategic government policies, enabling a better quality of life for them. Over the past 31 years, the NHA has been committed to developing housing and enhancing individual lives and whole communities throughout the kingdom. The Bann Eur-Arthon project was located in Bangkok metropolitan area and vicinity provinces. The board of National Housing Authority requested AIT Consulting to evaluate the quantity of incomplete housing structure, evaluating the quantity of construction work and computing the additional investment budget for six projects with 9044 units.

Structural Performance-based Evaluation of Beacon Tower 2

The Beacon Makati owned and developed by Geo Estate Development Corporation and New Pacific Resources Management, Inc. is a spectacular three tower high-rise residential condominium located in San Lorenzo Village, Makati City, Philippines. AIT Consulting worked through its client Sy² + Associates Inc. on the Structural Performance Based evaluation of the Beacon Tower 2. The main objective of the work carried out was to evaluate the structural performance of the building in such a way as to see whether the overall performance and reliability of the building will satisfy public safety under the effects of gravity and lateral loadings based on the design information provided by the client and main consultant.



PROPOSALS IN 2011

At the beginning of 2011, it was planned that besides responding to the queries for the structural engineering projects, efforts should be made to submit proposal documents in other fields. Based on this main objective, areas of expertise were sorted out to focus on the areas where an immediate response could be made to any given query. Through this search, Energy and Environment were identified as the focus areas for 2011.

As a result of the concerted effort approximately 92 proposals were submitted as a response to Expression of Interest (EOI) issued by Asian Development Bank (ADB) and local government agencies in Bangladesh, and private companies/organizations. Among the 92 proposals, 78% focused on Buildings and Infrastructure Development, 10% focused on Capacity Building, 9% focused on Disaster Preparedness and Sustainable Development and 3% on Information Technology.

CONCEPT NOTES IN 2011

Besides, responding to the Request for Proposals and Expression of Interests, a pro-active strategy was also developed in the form of developing Concept Notes. The Concept Notes were mainly focused on the development of ideas wherein AIT Consulting could provide services based on its and AIT's expertise.

OTHER ACTIVITIES IN 2011

During the year of 2011, AIT Consulting had the opportunity to conduct training and Capacity development in the area of structural engineering, as well as participate in the Fifth Asia-Pacific Urban Forum and exhibition.

- Capacity Development in Evaluation and Retrofitting of Buildings in Dhaka Bangladesh(January 2011)
- Training for NEC Consultants (Private) Limited engineers in AIT (23 to 25 May)
- Fifth Asia-Pacific Urban Forum 2011 - The Forum was organized by United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and was held at the United Nations Conference Center Bangkok from 22-24 June 2011.

Special Exhibition of the TWG on Environment and Disaster Management: From 23 to 25 May 2011, AIT Consulting participated in the Special Exhibition of the Thematic Working Group (TWG) on Environment and Disaster Management of the United Nations Asia-Pacific Regional Coordination Mechanism (RCM).



INTERNET EDUCATION AND RESEARCH LABORATORY (intERLab)

The Internet Education and Research Laboratory (intERLab) pioneered numerous trainings and workshops to fulfill its commitment to the human resource development in the field of ICT, specifically by using Internet technology in education and research. IntERLab partnered with like-minded institutions in research activities related to Vehicular Networking, Disaster Emergency Networking, and also continued the development of its e-education facilities through workshops. Follow-up projects and activities were also conceived to utilize knowledge and learning acquired through the preparatory workshops.

RESEARCH

intERLab continued to conduct its research activities in Vehicular Networking as well as Disaster Emergency Networking.

Vehicular Networking

IntERLab was involved in an innovative vehicular networking research project named “Car Talk” that is based on the OLSR routing technology and the Disruption Tolerance Net-

work (DTN). The project aims to achieve effective communication among vehicles themselves (Vehicle-to-Vehicle: V2V) and between vehicles and the infrastructure (Vehicle-to-infrastructure: V2I) to disseminate substantial information such as traffic data, sensor data, vehicular specific information, accident warnings and even commercial messages to drivers and passengers. Since 2009, intERLab, together with other institutions, has collaborated in the “Car Talk” research group steered by NECTEC’s Intelligent Transportation Systems (ITS) cluster.

Disaster Emergency Networking

With the generous support of the Thai Network Information Center (THNIC) foundation, intERLab researchers demonstrated DUMBO-III technology at Shinawatra University Thailand in May, 2011. DUMBO-III mobile ad-hoc network integrates DTN and social network capabilities into the intERLab’s well-known DUMBO framework for disaster management. The technical demonstration was a part of the Thailand Networking Group’s (THNG) 2nd camp, and also included a training workshop to familiarize trainees and research volunteers on how to deploy and utilize the multimedia information dissemination capabilities of DUMBO-III during large-scale natural disaster emergencies. Different types of mobile devices, tablets, and mobile phones, are accommodated into DUMBO-III technology, and were part of the demonstration.

intERLab extends their DUMBO technology into the field of robotics, and the collaboration project involving intERLab, NECTEC, and King Mongkut’s University of Technology, Thonburi (KMUTT) is called “DUMBO-FIBO”. The project is aimed at transferring bulk-data using robots inside the disaster affected regions. It is conceptualized in order to reduce the effect of various disaster-induced threats/hazards (radiations, explosives, chemicals) on human beings by deploying robots to perform human-tasks that require movement.

Asian Internet Engineering Conference (AINTEC) 2011

intERLab successfully arranged the ACM SIGCOMM incorporated 7th Asian Internet Engineering Conference (AINTEC) in November 2011 in Bangkok even amidst the severe flood threats to the city. The conference provided an international technical forum for experts from industry and academia, and especially aimed at addressing issues pertinent to the Asia and Pacific region with vast diversities of socio-economic and networking conditions. AINTEC’2011 solicited high quality papers that improve digital communications in diverse situations, represented as “Challenged Networks”.



2nd THNG Camp on Disaster Emergency Networking at Shinawatra University, Pathumthani

e-education

On behalf of the ASEAN Virtual Institute of Science and Technology (AVIST) and the ASEAN Science and Technology Research and Education Network Alliance (ASTRENA), intERLab operates the CanalAVIST project which provides channels for seamless education, teaching, training, conferencing, lectures and talks for ASEAN countries. The CanalAVIST project makes use of intERLab's own VClass e-learning platform to deliver lectures and stream video ranging from low bit rate to high-definition quality. E-education

events in 2011 included the UniChannel project, where both real-time and archived lectures were broadcasted using intERLab's VClass platform, ii) Telemedicine workshop on VClass, and iii) Training workshop on VClass learning management system (LMS).

UniChannel Project

UniChannel is a cost-effective e-learning platform designed and implemented by intERLab to enable large scale sharing and archiving of teaching and learning resources (e.g., video lectures) among Thai universities and other educational institutions through National Research and Education Network (NREN) infrastructure namely UniNet. In 2011, two courses were successfully offered to Naresuan University of Thailand through UniChannel. Both real-time and scheduled broadcast were utilized to deliver the lectures of the courses. In the course which was offered real-time, students from Naresuan University received the video-lecture streams real-time from Silapakorn University followed by a Q&A session. In the other course, pre-recorded video-lecture streams were delivered to Naresuan University as scheduled at particular class hours. After the lectures, the students interacted with the instructor via online video chat.

Telemedicine Workshop on VClass

A telemedicine workshop, “Sharing for Life over the TEIN Network” was organized by intERLab for the purpose of sharing of clinical cases that pose challenges in diagnosis and choice of treatment and/or are of significant educational importance. The workshop was jointly hosted by the Nepal Research and Education Network (NREN) and Asian Institute of Technology (AIT) and was broadcasted to all TEIN3

members. Remote participants from five member countries were able to receive high-definition video presentation of medical tele-consultation among Sanjay Gandhi PG Institute of Medical Sciences in India, Pramongkut Hospital in Thailand, and three hospitals from Nepal, namely Kathmandu Model Hospital, IOM, and BP Koirala Memorial Cancer Hospital via the CanalAVIST delivery platform. The workshop clearly demonstrated the use of CanalAVIST as a key application that enables regional collaboration on tele-medicine, which could lead to sustainable development of learning environment for research and education in the e-health area.

Training Workshop on VClass LMS

intERLab organized a two-day workshop on implementing VClass learning management system (LMS) for enabling learning environment among TEIN3 Members. The goal of the workshop was to provide assistance for deploying and conducting a remote workshop on VClass LMS. The workshop was attended by the TEIN3 beneficiaries. Thirty participants were physically present at the workshop in intERLab where thirty others joined remotely from Nepal, Pakistan and Sri Lanka.

TRAININGS

intERLab trainings are designed to disseminate technical informa-



Telemedicine Workshop on Sharing for Life over the TEIN3 Network



Wireless Internet for Connectivity Workshop

tion and updated knowledge to its participants in the Asia Pacific region. IntERLab continued to bring in the experts/instructors of various technical fields from its partner institutions, and thereby, succeeded in providing up-to-date information concerning various workshop topics. Among its partners are Trans-Eurasia Information Network 3 (TEIN3) project, Delivery of Advanced Network Technology in Europe (DANTE), Network Startup Resource Center (NSRC) – University of Oregon, Asia Pacific Advanced Network Japan (APAN-JP), Thai Network Information Center (THNIC), CISCO systems, China Education and Research Network (CERNET), and Asia Pacific Network Information Center (APNIC).

Workshops were held on timely topics relevant to Internet technology, such as Wireless Internet for Connectivity workshop, MPLS Network Design and Deployment, DNS/DNSSEC workshop, Distance Education, Routing: BGP Multihoming with Ipv4 and IPv6, Campus Network Design and workshops, Multicast Hands-On.

AIT VIETNAM

INTERNATIONALITY

Exploring new forms of engagement and nurturing existing cooperation with international and regional institutions based in Vietnam are both critical to growing the AIT brand as a leading international institution of higher learning. This year, AIT Vietnam (AITVN) engaged in a number of group discussions, seminars, workshops and conferences linking with various public and private sector institutions including embassies (U.S., Switzerland, Netherlands and Sweden); EU platforms; Asian Development Bank; UN organizations (FAO, UNDP) and universities (TU Delft- Netherlands, IHEID- Geneva, Boras University, Sweden and University of Saxion- Netherlands; and private sector companies (V-CEM, EVN).



AITVN's participation at national, regional and international-level workshops led to interactions with SAEMEO-RETRAC, US-Vietnam Universities, Sustainability Science, ISF and Management Learning, and reputable universities including Salzburg University, Austria; Clermont Graduate School of Management-France, and the Graduate Institute of Geneva-Switzerland.

EXCELLENCE AND RELEVANCE IN EDUCATION RESEARCH AND OUTREACH

Vietnamese students want to attend AIT because it has a strong reputation for quality. AIT is international, programs are highly relevant and the costs are reasonable, according to recent graduates. AITVN continues to provide added value to AIT School-led programs by providing high-quality services to facilitate operation of all academic programs. However, AITVN also launched its own program entitled, Professional Masters in Finance, Banking and Information Management (in collaboration with Yun Lin University of Taiwan) and a Professional Masters in Tourism and Hospitality Management (in collaboration with University of Salzburg, Austria). Current plans include developing more such programs in selected areas including Textile and Fashion Management, and Disaster Risk Management.

POSITIONING AND BRANDING

Branding and positioning was achieved this year with increased recognition and increased visibility, despite the challenges in com-

municating the brand at a national level. AITVN's branding strategy involved attention to visual brand representation at its offices, and through its website, stationary and curriculum. Improving its image and increasing name recognition was also carried out through bi-monthly newsletters, expert seminars, newspaper advertising, television interviews, and public ceremonies. A full-time PR officer was recruited to develop a comprehensive institute level strategy and linked work plan. Expectation is that this dedicated position will not only help to spread the word but also in terms of target marketing.

DEVELOPMENT AND RESOURCES MANAGEMENT

AITVN continues to develop, expand and manage its resources by identifying new partners and nurturing valued partners; by caring and management of personnel of AITVN; and by improved administrative efficiency.

AITVN RETREAT

AIT in Vietnam held a successful two-day retreat in Binh Thuan Province from September 20 and 21 attended by 36 staff members. The theme of the retreat was, Service Innovation and Quality. The retreat reflected on the quality of our service delivery and agreed on a set of minimum standards (ethical, personal, behavioral and professional) needed to be followed by all AITVN staff.

AIT VIETNAM EXPANDS PRESENCE IN HO CHI MINH CITY

AIT Vietnam (AIT-VN) expanded its facility in Ho Chi Minh City, Vietnam, to meet the rapidly growing demand for its higher learning professional programs and professional development short courses in the nation's largest city. The new office was unveiled on 31 August 2011 at a ceremony graced by H.E. Dr. Tej Bunnag, Chairman of the Board of Trustees of AIT and former Minister of Foreign Affairs, Thailand, who officially opened the facility. The AIT chairman led a delegation from the headquarters of AIT in Bangkok, Thailand, which included Prof. Said Irandoust, AIT President, and Dr. Jonathan Shaw, Executive Director, AIT Extension. "The sheer growth in the number of programs we offer has required us to increase our number of classrooms and offices," AIT-VN director Dr. Amrit Bart said.



CENTERS OF EXCELLENCE

Center of Excellence on Sustainable Development in the context of Climate Change (CoE SDCC)

In its third year since its establishment in September 2009, the Center of Excellence on Sustainable Development in the context of Climate Change (CoE SDCC) has been working hand in hand with AIT researchers, students, faculty and partners to support the AIT vision of responding to global climate change challenges through concerted trans-disciplinary efforts leading towards a more sustainable society. The goal of CoE SDCC is to consolidate the Institute's research work and broaden its networks and partnerships by providing a platform to discuss and launch shared initiatives. It works to pool resources to effectively address issues and challenges in sustainable development and climate change in Asia and beyond.

By the end of 2011, after a long process of accommodating and gathering aspirations and opinions from all AIT stakeholders, the AIT research strategy 2012-2016 was concluded and readied for launch in the New Year. Based on various assessments of the needs of the region, and review of AIT strengths as well as available resources within the institute, research activities at AIT over the next five years will be focused on five thematic areas:

- Disaster Risk Management
- Sustainable Land and Water Resources Management
- Business and Innovation Models for a Green Economy
- Urban and Rural Quality of Life and Sustainability
- Lower Carbon, and Sustainable Production & Consumption Technologies & Management

AIT Research Strategy 2012-2016 reflects the focus on sustainable development and emphasizes the consolidation of research efforts to create a research niche that will harness the Institute's range of networks, experience and expertise. CoE SDCC is mandated to safeguard the implementation of this Research Strategy. Furthermore, the center has been involved with various activities, over the past three years. In 2010, CoE SDCC col-

laborated in the joint AIT-French Network Initiative targeting young researchers to work on new collaborative projects based on the general theme of "Sustainable Development and Climate Change" with a focus on the development of the ASEAN region using multidisciplinary approaches.

In a significant development, CoE SDCC was engaged by UNEP Riso Centre (URC) Denmark, as Regional Center for its Technology Needs Assessment (TNA) project in Asia, which is being funded by Global Environment Facility (GEF) as a part of its worldwide effort to support 35 to 45 countries within the framework of UNFCCC. As a regional center, CoE SDCC serves as the focal point for technical support and capacity building for 14 participant countries in Asia.

At the same time, CoE SDCC was also involved in a key project on "Thailand's Institutional and Policy Landscape on Climate Change Mitigation". The project aims to provide an assessment of the gaps existing between the need for effective implementation of National Strategy on Climate Change prepared by Royal Thai Government and existing support from all UN agencies, the government's own plans, and support from other international non-governmental agencies. UNEP, as the Secretariat for the Joint Team on Climate Change, engaged AIT to conduct a thorough research study, map the role of stakeholders, and help UN agencies to fill these gaps.

Additionally, CoE SDCC is now finalizing the SYKE-funded project on "Policy Learning in Mekong countries and Nepal", resulting in some suggestions to the government of Finland on better use of the climate change funds to targeted countries. CoE SDCC also worked on the Alternative University Appraisal (AUA) Project, an initiative aimed at creating an instrument that recognizes universities good practices in promoting and adopting Education for Sustainable Development and refining the AUA Peer-Consultation System.

Yunus Center at AIT

The Yunus Center at AIT is the result of a collaborative effort between Nobel Laureate Professor Yunus and the Asian Institute of Technology. The Center aims to contribute to poverty alleviation through the promotion and raising awareness of the ideas and concepts of social business.

WORKSHOPS

The Yunus Center at AIT made a presentation at the FAO ADB Bioenergy Meeting and on Social Business and Education at the Thailand Regional Forum meeting on Social Entrepreneurship. The Center then made a presentation on “Making Sense of Social Business” at a Net Impact Seminar and was asked to speak on Social Business at the “Pinnacle of Sasin” celebration held by the Sasin Business School of Chulalongkorn University. The Center also took part in the Social Business Day 2011 that was held at Dhaka, Bangladesh and was organized by the Yunus Centre Dhaka. The Center participated in a panel discussion at the event. The Center was also asked to talk on Social Business at the meeting of the Amcham Foundation.

STUDENT RESEARCHERS

The Center hosted a student Ms. Valeria Kozhevnikov from the Wharton School of Business at the University of Pennsylvania. The Center hosted a team from Financiers without Borders, a non-profit organization in the US, who made a presentation on their work at the beginning of the year. The team consisted of Max Glikman, Rodion Lerman Dmitriy Berenzon, Ilir Hasi, David Gall and George Georgiev. In the middle of the year another team from Financiers without Borders visited the Center to study microfinance in Thailand. The Center also hosted two students, Mr. Ananya Pratap Shahi and Mr. Ananya Paras from BIMTECH, India. Ms. Filipa Pereira, a student from the Technical University of Lisbon, did an internship at the Center.

OUTREACH

The Center continued its efforts to network with other organizations and to visit social development projects in Thailand. The Center visited Nakorn Si Thammarat Province to observe small enterprises. The visit was arranged by CORIN Asia Foundation. The Center visited the Mokalan Microfinance Institute and community development projects dealing with production of fertilizers from water hyacinth and nipa palm sugar production. The Center had discussions with Changefusion, Asoka, CORIN Asia, Heifer International, BIMTECH, Sansiri, UNICEF and ADB. The Center visited the projects of Heifer International in Chiang Rai, Thailand. These projects included microfinance, agriculture and livestock. The Center visited microfinance institutions in Nakhon Nayok district and a community diesel station promoted by the Bangchak Corporation. The Center visited the Bank of Agriculture and Agricultural Cooperatives (BAAC) to learn about their operations. The Center also visited waste recycling enterprises in Bangkok and the urban housing project Baan Manking under CODI. The Center had discussions with UNICEF and Sansiri Corporation on efforts to combat iodine deficiency. The Center had discussions with ADB on financial inclusion initiatives and mentored teams that took part in the Global Social Venture Competition.

CSR Asia Center at AIT

The CSR Asia Center at AIT (CSRACA) is a joint venture partnership between the Asian Institute of Technology (AIT) and CSR Asia, a leading provider of information, training, research and consultancy services on sustainable development practices and corporate social responsibility (CSR) in Asia. It brings together the strengths of the two founding organizations in pursuit of its vision of a dynamic, competitive business environment in Asia, in which the private sector is equipped to develop and implement innovative solutions for the challenging issues of sustainable development in a strategic and effective manner.

The mission of the CSR Asia Center at AIT is to advance the development and implementation of effective and innovative sustainability solutions and CSR strategies for and by business; and to facilitate the development of supportive framework conditions for corporate social responsibility (CSR) and sustainable development.

Founded in 2010, the CSRACA engages a growing team delivering a range of advisory, capacity building, research and engagement projects. It supports companies in applying international best practice standards like the ISO 26000 guideline on social responsibility; develops comprehensive sustainability reporting processes; implements strategic community investment initiatives and measures their impact; or develops CSR strategies, typically including benchmarking, gap analysis, stakeholder engagement, and training. Tracking the needs and aspirations of stakeholders and the private sector, the Center conducts research and engagement work on cutting edge issues and trends for the role of the private sector in sustainable development. Focus topics in 2011 included climate change adaptation, biodiversity and ecosystem services, business and human rights, social enterprise and inclusive business strategies that harness the capacity of the private sector to contribute to poverty alleviation and the Millennium Development Goals.

Building on CSR Asia's established expertise and extensive business network that includes many of the leading companies operating in

the region on sustainability and development issues, the CSRACA engages businesses and their stakeholders in Thailand, the Mekong region, and beyond. In 2011 it initiated a special focus on Myanmar delivering a series of presentations and workshops on CSR in Yangon. As Myanmar continues its rapid opening, enhanced awareness and capacity for responsible business practices that contribute to positive change and sustainable development in the country will be a key to ensuring the rapid influx of investment that is beneficial to the country and its people while protecting the environment. CSRACA is actively engaging partners on the ground to support local capacity building as well as working with international business partners on responsible investment practices as they increase their engagement in Myanmar.

HIGHLIGHTS 2011

In September 2011, AIT launched a Professional Master's Degree in CSR that is coordinated by the CSRACA. In partnership with CSR Asia AIT's School of Management is pioneering a flexible executive style professional Master's degree in CSR to respond to an increasing demand from companies in Asia for professional skills in CSR.

The first of the eight intensive modules that comprise the taught part of the program and can be taken in any order to offer maximum flexibility to busy professionals was delivered at AIT in September 2011. Having moved to the city centre during and following the flood, the course has attracted professionals from across Asia from Pakistan and India to Vietnam, Singapore and Hong Kong and a wide range of sectors. Designed and delivered by leading experts in relevant fields including environmental management and climate change, value chain risk management, community investment, human rights and social enterprise, the course offers an exciting learning environment for business leaders to develop professional competencies to effectively manage sustainability risks and devise innovative solutions to global challenges in dynamic business environments.

United Nations, AIT Office

The UNAIT office successfully developed and established contacts with several UN agencies. These activities included collaborative projects, training programs, student exchanges and conducting workshops. With UNESCO-IHE Delft, The Netherlands, a double degree program on environmental technologies for sustainable development (DD-ETSuD) was successfully established and the first batch of students enrolled on August 2011 semester.

The dual Master's degree program on Urban Water Engineering and Management (UWEM) continued to attract students for four consecutive years. Furthermore, an Erasmus Mundus Doctoral program on Environmental Technologies for Contaminated Solids, Soils and Sediments (ETeCoS3) funded by EU was in the third year of operation. Two Master's students from AIT have been successful in securing scholarship from ETeCoS3 program and are currently carrying out research at UNESCO-IHE Delft, The Netherlands and Università degli Studi di Cassino – Italy.

The UNAIT office also held a workshop on Sus-

tainability Solutions to Coal Ash from Coal Fired Power Plants in Manila, Philippines. Researchers and policy experts from France, Philippines, and Thailand participated in the workshop. Currently, 2 research projects are in progress with funding from UPaRF and SDCC/AIT-France network. Several projects are currently under consideration for funding including applications for SWITCH-ASIA, UNESCO-IHE, GEO and others. Several initiatives with UN agencies were also undertaken by AIT faculty including Project Monitoring and Evaluation focused on Poverty reduction and MDG's, funded by UNDP BD; Training course on Integrated Watershed Management and reforestation, funded by UNESACAP Thailand; and Organizing an Industry Round table on: Zero ODP/Low GWP Technology options and Business opportunities in the context of Accelerated HCFC Phase Out, funded by AIT UNEP RRC AP. In order to further streamline the cooperation between AIT and UNEP, it was mutually agreed by AIT and UNEP to establish a Deputy Director position which is currently held by Director, AIT Extension.

ASEAN Regional Center of Excellence on Millennium Development Goals (ARCMDG)

As instructed by its Board of Advisors in January 2011, ARCMDG further expanded its activities to facilitate international policy making on MDGs and to strengthen international networks for knowledge management on MDGs.

- On 10 January 2011, upon the invitation of ASEAN, ARCMDG took part in the ASEAN internal Cross-Sectoral Consultation on Millennium Development Goals (MDGs) in Jakarta.
- ARCMDG organized an International workshop on ASEAN MDGs Roadmap for ASEAN Senior officials in Bangkok on 24-25 January 2011 that was fully funded by UNDP and ASEAN. More than 130 Senior Officials in-

cluding 8 UN agencies attended. A complete plan on future follow-up was approved.

- ARCMDG on January 26 attended the closed session of ASEAN Senior Officials on Rural Development and Poverty Elimination to consult on how to strengthen collaboration between ASEAN and ARCMDG. The two consultations (mentioned above) re-launched strong interest on ASEAN MDGs work which led to the final approval of the ASEAN roadmap for the attainment of the U.N. Millennium Development Goals, which was then approved in August 2011. <http://www.aseansec.org/documents/19th%20summit/MDG-Road->

map.pdf The 26 pages document presents in detail the whole ASEAN plan of work on MDGs. ARCMDG work is recognized in the same document.

- Upon an invitation by the U.S. State Department, ARCMDG attended the 2011 APEC ACT senior officials meeting from March 2-4 in Washington DC. The consultation included the future APEC plan of action to enhance member economies' collaboration to reduce forms of crime and corruption which affect the attainment of MDGs as well as innovative collaboration between APEC's human security policies and MDGs policies.
- Upon an invitation by the ASEAN Secretariat, ARCMDG attended the Regional Workshop on MDGs data validation, where the final consensus was reached on the publication of the first ASEAN statistical report on MDGs implementation. The workshop agreed on ASEAN MDGs indicators: <http://www.arcmdg.ait.asia/indicator.htm>
- Upon an invitation by GIZ and the Bank of Indonesia ARCMDG attended the Workshop on "Managing Regional and Global Governance on MDGs in Asia: Opportunities and Challenges for the ASEAN Economic Community" in Jakarta on and October 6 – 8 where the ARCMDG director delivered a keynote speech and chaired a panel session.
- Upon an invitation of the Australian and Malaysian Governments, the ARCMDG director attended the International IFNGO Conference on "Strength, Unity and Diversity: Time for an International Voice for NGO's" in Kuala Lumpur on November 8-11 where he made two keynote speeches.
- ARCMDG joined the global network Beyond2015, which advocates a fundamental shift on the international community's thinking and cooperative action on sustainable development: www.beyond2015.org. The campaign brings together more than 280 organizations from over the world, but ARCMDG is the only regional one in Asia-Pacific.
- The ARCMDG director was invited and sponsored by the Gregorian University to lead a training course on human rights and MDGs at the Great Lakes Peace School in Burundi. The Peace School strives to create the knowledge and understanding needed to facilitate peace among ethnic groups in Burundi, Rwanda and the DR of Congo. The course started in June 2011 in Bujumbura and is planned to hold other sessions later in Kigali, Rwanda and Kisangani, DR Congo.
- The ARCMDG director contributed to the creation of a consortium of few major institutions to bid together the ASEAN READI Programme funded by the EU. Preparation, consultations, project writing, and budget definitions absorbed approx. 20% of the director's office time in recent months. The EU selection in May 2011 scored the AIT proposal as the second best.
- ARCMDG submitted in August 2011 a proposal for the Swiss-funded programme on Making Market Work for the Poor in Jamuna, Pabna and Teesta chars in Bangladesh.
- On August 31 ARCMDG took part in the consultation on Thailand as a Hub for International Cooperation organized by GIZ.
- In July – Sept 2011 ARCMDG cooperated with the international NGO Mobile Diagnosis to submit to various donors a project on development of mobile diagnosis methodologies.
- GIZ informally invited ARCMDG to submit an application to be an executing partner in the GIZ managed evaluation initiative called EDC. The evaluation initiative will be funded by the German Federal Ministry of Economic Cooperation and Development (BMZ). Since BMZ and GIZ have not yet decided who will execute the EDC and in what region, GIZ Bangkok thinks that ARCMDG, in cooperation with other AIT Centers might be a winning candidate. ARCMDG refined an application, while GIZ will lobby its headquarters to "accompany" it in its offices and at BMZ.
- In July-Dec 2011 the ARCMDG director initiated and facilitated an internal and international consultation with the goal of creating an e-learning platform for AIT knowledge management products, including those cre-

ated by centers of excellence. The consultation led to a MoU with the ASVI School of Management to create a professional Master's Course on third sector management, which will be developed in 2012, to be delivered by AIT Extension in 2013.

- In November 2011 ARCMDG submitted to the Japan Foundation a project proposal for a consultation to be held in November 2012 on "MDGs beyond 2015: how will the pursuit of happiness shape our development?" The proposal was developed in collaboration with the International Research Associates on Happy Societies.
- ARCMDG was invited to participate in the initiative with partners in Asia led by Boras University (Erasmus Mundus project).
- A consultation was initiated to consider a possible partnership with Doi Tung Foundation on the ARCMDG research project called ORCHID, Organizational Changes in Development.
- In December 2011 ARCMDG joined a consortium by Governance Solutions International and Professional Management AB (Sweden), which submitted a proposal for the SIDA Organizational Assessment on CSOs and Development.
- ARCMDG has planned and executed a new magazine called "Freedom from Want" in print and online. Freedom from Want magazine carves out a new niche in development thinking. The magazine reached the public in early April 2011 in print and online. The Magazine was to be financed through advertising. In 2011 three issues were published and reached hundreds of partners. Freedom from Want can be read and downloaded at the following links: <http://www.arcmdg.ait.asia/Magazine.htm> <http://issuu.com/arcmdg/docs/magazine>

Media Engagement: ASEAN TV has broadcasted a reportage on ARCMDG and MDGs on 25 January 2011; The Bangkok Post published a note on the MDGs workshop on 25 January 2011; <http://www.bangkokpost.com/news/local/217981/>

<http://www.nationmultimedia.com/home/Practical-tools-needed-to-cut-poverty-in-half-on-t-30147342.html>; The Nation Multimedia published an Opinion Article prepared by ARCMDG and MCU signed by the AIT President on 28 January 2011: <http://www.nationmultimedia.com/home/Practical-tools-needed-to-cut-poverty-in-half-on-t-30147342.html>; A new ARCMDG brochure has been prepared and printed. <http://www.arcmdg.ait.asia/brochure.pdf>; The Director gave various interviews and public speeches as invited speaker by various institutions; The ARCMDG website has been renovated with several updated information: www.arcmdg.ait.asia; ARCMDG commissioned a new public service announcement then published by various magazines: <http://www.arcmdg.ait.asia/Poster.pdf>; In August 2011, Bangkok Post published an op-ed by AIT president and ARCMDG Director on University ranking, human rights and MDGs: <http://www.bangkokpost.com/opinion/opinion/249289/do-university-rankings-truly-measure-up>

In June 2011 the ARCMDG director was the keynote speaker and panelist on MDGs at the Joint Conference 2011 of the Asian Medical Students' Conference (AMSA) organized by Asian Medical Students' Association (AMSA) and at the Asia Pacific Regional Meeting (APRM) organized by International Federation of Medical Students' Associations (IFMSA) at the University of Hong Kong on: "Integrative Medicine: Evidence-based traditional, complementary and alternative medicine (TCAM) in modern medical practice". He also gave various lectures at AIT courses organized by AIT Extension and by the AIT School of Management on public sector reform, on various MDGs aspects and on emotional intelligence, and was invited to lecture on Managing Global Health Challenges, at Bocconi University, Milan, Italy on March 25, 2011.

AIT-UNEP Regional Resource Centre for Asia and the Pacific (AIT-UNEP RRC.AP)

2011 marked the 22nd year of the Regional Resource Centre for Asia and the Pacific (RRC.AP). An office that was established by United Nations Environment Programme (UNEP), it began as the Global Resource Information Database (GRID-Bangkok) focused on Remote Sensing / Geographic Information System (RS/GIS), and functioned to assist countries in Southeast Asia.

Presently, RRC.AP has undertaken remarkable changes in its working landscape and it extended its scope as a technical Centre that serves 5 sub-regions (Central Asia, Northeast Asia, South Asia, Southeast Asia and South Pacific) in Asia-Pacific. RRC.AP responds to the region's needs for capacity building in science, assessment, policy tools, emerging environmental issues, knowledge and information dissemination; and pilot projects for demonstration and replication.

2011 HIGHLIGHTS

Policy

The Fourteenth Annual Meeting of the RRC.AP Advisory Committee was held on October 25. The meeting was attended by regional and partner organization advisors such as AIT, Asian Development Bank (ADB), Institute for Global Environmental Strategies (IGES), representatives from UNEP Headquarters and UNEP ROAP. The advisors welcomed the agreement on the new Memorandum of Understanding between UNEP and AIT, and appreciated its flexibility from the perspective of an early revision to adjust for imminent changes in the organizational frameworks of both UNEP and AIT. The Collaborative Action Network (CAN) held its 12th Annual Meeting the following day. The discussion was centered on Rio+20 and prospects for the Institutional Framework for Sustainable Development. The participants also brainstormed on emerging issues for the identification of future opportunities in the sustainable development.

Management Enhanced

As guided by the Advisory Committee on the management structure of RRC.AP, the secondment of Deputy Director of Centre by AIT was agreed to. UNEP appointed a Senior Technical Advisor for the center to oversee the program implementation and technical management.

Science

RRC.AP reinforced the practical grass-root oriented initiative of installing the biogas digesters in Cambodia and the Philippines. The approach is community based waste to energy conversion with the 3R concept on the agricultural waste. Results and documentation of the processes are to be made available on the 3RKH web portal.

The Black Carbon and Atmospheric related activities: Atmospheric Brown Clouds (ABC) database, Black Carbon (BC) bulletin, Acid Deposition Monitoring Network in East Asia (EANET), and the annual reports on the Malé Project all moved forward with the support of the RRC.AP team.

Together with the Stockholm Environment Institute (SEI), the Climate Change Adaptation Knowledge Platform (AKP) RRC.AP continued implementing scoping and pilot activities in 13 program countries. RRC.AP has also made most of its WEP portal and ICT services to promote exchange of information and dissemination of knowledge.

Capacity Building

RRC.AP launched an e-training course on Green Growth in October 2011. Green Growth is a policy focus for Asia and the Pacific that emphasizes ecologically sustainable economic progress to foster low carbon and socially inclusive development. Partnership between RRC.AP, AIT, the Economic Commission for Asia and the Pacific (ESCAP) and the Government of United Kingdom made this training possible. RRC.AP also conducted a series of workshops, public awareness seminars and trainings on Climate Change Adaptation and Air Pollution (RDAC/RRC.AP).

Asian Center for Soil Improvement and Geosynthetics

The Asian Center for Soil Improvement and Geosynthetics (ACSIG) consolidate the current soil/ground improvement related activities in the Soil Engineering Program, liaised with other Centers relevant to ACSIG, and acted as a mechanism in the advancement of soil/ground improvement techniques and the subsequent effective utilization of geosynthetics for environmental preservation, and to mitigate existing geotechnical problems in Asia and the Pacific through competent, updated and sustainable education, research and outreach activities.

Besides consulting services, ACSIG also serves as independent testing laboratory for quality control and quality assurance of geosynthetics used in various projects not only in Thailand but also the Southeast Asian Region. In Thailand, it includes Vigor Merger Company Limited, Siam

Gabion Company Limited, Ceteau Fareast Limited, Thai Wiring System Company Limited, WUL WITH International Company Limited, Eastern Seaboard Environmental Complex Limited, and Tencate Geosynthetics Company Limited among others. Apart from Thailand, ACSIG also assists companies from Malaysia, namely the Maccaferri Asia, Linetech, Nylex and Ceteau.

ACSIG has also served as the headquarters of the International Geosynthetics Society – Thailand Chapter (IGS-Thailand) since its establishment in 2002. Moreover, ACSIG also conducts technology transfer activities to serve the members of IGS-Thailand as well as the Southeast Asian Geotechnical Society (SEAGS). In 2011, ACSIG published 2 issues of newsletters for both IGS-Thailand (June and December 2011 issues) and SEAGS (February and August 2011 issues).

WHO Collaborating Centre for Water Supply, Waste Disposal and Air Pollution

The World Health Organization (WHO) Collaborating Center was established at AIT (EEM) over three decades ago. The scope of the collaboration between two partners, WHO and AIT is as follows: AIT is (i) to perform basic and applied research on community drinking water supply, waste disposal, wastewater use, water resources development, soil and air pollution in relation to human health; perform research on health impact assessment, health risk assessment and environmental management for health risk reduction; (ii) to use research outcomes and to conduct specific studies and projects in support of the preparation of training materials and normative documents, such as manuals and guidelines, and reports for WHO, its Member States and development partners; (iii) to provide technical advice, guidance and consulting to WHO, its Member States and development partners; (iv) to educate and train engineers, scientists and health professionals in the environmental health fields, related to drinking water supply and waste disposal, water management and

wastewater use, and other related areas; and (v) to organize meetings, workshops, seminars and conferences and to disseminate technical information on relevant topics.

One of the major recent highlights of the collaboration was a WHO-led promotion and implementation of Water Safety Plans. These are plans to ensure the safety of drinking water through the use of a comprehensive risk assessment and risk management approach that encompasses all steps in water supply from catchment. Water safety plans are considered by the WHO as the most effective means of maintaining a safe supply of drinking water to the public. Their use should ensure that water is safe for human consumption and that it meets regulatory water standards relating to human health. Comprehensive risk assessment and risk management form the backbone of these plans, which aim to steer management of drinking water-related health risks away from end-of-pipe monitoring and response.

ACECOMS

Over the course of 2011, ACECOMS has been gradually worked together with AIT Consulting in close coordination on structural engineering and software development, structural engineering seminars, and capacity building of structural engineers in the public and private sectors, amongst other activities. In relation to this collaboration and to expand coordination, the ACECOMS office moved to the premises of AIT Consulting in August 2011 and together they worked closely to continue providing structural engineering solutions for its clients.

RESEARCH AND CONSULTANCY IN 2011

Project Evaluation and Structural Design Assistance of Square Pharmaceuticals Building

Client: Square Pharmaceuticals Co., Ltd. Location: Dhaka, Bangladesh

Square Pharmaceuticals Co., Ltd. engaged the service of ACECOMS to carry out a Project Evaluation and Structural Design Assistance of a steel building. The main objectives of the work carried out included developing a structural system to obtain good performance and substantial cost saving and assisting in the basic design of the structural building system in such a way that the overall design compliance, general performance, reliability and cost effectiveness were achieved.

Structural development and design of LVP steel building

Client: Square Pharmaceuticals Co., Ltd. Location: Dhaka, Bangladesh

Square Pharmaceuticals Inc. engaged the service of ACECOMS for structural development and design of LVP steel building. The main objectives of the work carried out included developing and designing structural system of the building in terms of suitability, conformance to the relevant building codes and standards, cost effectiveness and adherence to the established engineering practices, with special emphasis on effects due to earthquake, winds and other applicable demands. The overall work carried out included the following:

a) Reviewing of architectural drawings, machine layout, material test report, soil report and other related documents as necessary; b) Providing of design criteria to be used; c) Developing detailed design methodology; d) Developing structural system; e) Creating several computer models of the structure with varying complexity and refinement; f) Carrying out of a detailed analysis of the structure and g) Performing the design for key structural components.

Structural Evaluation of Preheater Building for Installation of New Machines

Client: Siam City Cement. Location: Thailand

Siam City Cement engaged the service of ACECOMS to carry out a Structural Evaluation of Preheater Building for installation of new machines. The main objectives of the work included 2 parts, namely Structural System Evaluation and Site visit for structural design verification. The first part was to evaluate the structural system and details for new machine installation in terms of suitability, safety, performance, conformance to the relevant codes and standards, cost effectiveness and adherence to the established engineering practices. The site visit was carried out to ensure that construction is carried out in accordance with structural design objectives and drawing, site visit by structural engineers was conducted for structural design verification and drawing clarification.

Overall Review and Detailed Design of Flyover Bridges

Client: Advance Engineering Consultants

Location: Lagos, Nigeria

Advance Engineering Consultants, a leading consulting company in Nigeria engaged the service of ACECOMS to design and provide the drawing for the structural system of two flyover bridges, including estimation of material quantities. The bridges are located in Lagos-Badagry expressway in Nigeria and have span lengths of 30-m and 50-m respectively. The scope of work included an overall review of the flyover bridges, detailed review

and design of structure system for 30-m and 50-m spans at middle of two bridges including pier and foundation; estimation, final design drawing and calculation report of the structural system.

TRAINING AND SEMINARS IN 2011

Another prime activity of ACECOMS is the provision of professional training continuing education for practicing engineers. Training sessions are intended to provide both theoretical background to the computational analysis and design aspects of civil and structural engineering proj-

ects, and hands-on practice on the effective use of computing tools and software. The training also helps professionals in keeping themselves updated with recent developments in computing and other aspects of their profession. The trainings/seminars/workshops are held on a variety of topics such as:

- Workshop on Modeling, Analysis and Design of High-Rise Building - Chiang Mai, Thailand, 16 September 2011
- Customized Seminar for Engineers at PBL Group Company - Bangkok, Thailand, 26 May 2011

The Wetlands Alliance 2011

During the past five years the Wetlands Alliance has established itself as a well-known and competent actor in the region. Its focal areas include coastal and inline areas of Thailand, Lao PDR, Cambodia and Vietnam. The Alliance, with AIT and three other partners - WorldFish, Corin-Asia, and WWF - is supporting more than 45 local partners in these countries. In 2011, the Alliance expanded its engagement to also include Myanmar. An Alliance secretariat was established in Yangon and the Alliance is now supporting five local NGOs in two focal areas of Myanmar - the dry-zone and the delta region.

ALLIANCE FIELDTRIP TO PARTNER PROJECTS IN MYANMAR

As AIT continues to be the only regional partner that has no direct responsibility for any of the Alliance's geographic focal areas, AIT-supported activities continue to focus on research on various aspects of local level development through the support of Master thesis research. During 2011, the Alliance provided small research grants to AIT students for their thesis research fieldwork. Following specific backstopping requests from various local Alliance partners, AIT also continued and expanded its engagement in capacity building for community business development and access to capital. A third thematic area for capacity building is the increasing use of GIS and Remote Sensing for community planning.

In close cooperation and coordination with the Alliance Secretariat, AIT also initiated and implemented a Gender assessment of the Alliance.

To further strengthen the Alliance's capacity to strengthen its local partners, a collaboration with Hand in Hand (HiH) was initiated by AIT. HiH has successfully created more than 1 million jobs in India through the establishment of Self Help Groups, and providing them with training and access to credit. To give local Alliance partners in northeast Cambodia with a better understanding on how this model works and how the success was achieved, AIT invited and facilitated the visit of the HiH micro-finance managing director to Kratie and Stung Treng to provide an overview of their approach and activities to Alliance partners CRDT, CEPA and CED. The collaboration is ongoing and expected to be strengthened in 2012.

Hence, AIT continues to expand its engagement with local Alliance Partners while simultaneously looking for new and additional opportunities beyond the existing partnerships. Beyond the continuation of the ongoing activities and programs, AIT/AOP sees its role and responsibilities primarily in enhancing the Alliances capacities both in the generation of baseline data and knowledge that allows fact-based decision making for poverty reduction interventions as well as in gender capacity building.

The Center of Excellence in Nanotechnology (CoEN)

NOTHING SMALL ABOUT AIT'S NANOTECHNOLOGY PORTFOLIO RELEASE CoEN unveils 16 nanotechnology products and processes

For over five decades the Asian Institute of Technology (AIT) has pushed forward with advances in science and technology that directly impact people's lives. As part of its 52nd Anniversary celebration held on September 5, AIT celebrated that tradition by showcasing the latest technological breakthroughs taking place at its Center of Excellence in Nanotechnology (CoEN).

A whopping 16 nanotechnology products and processes were introduced at the signature "Nanotechnology Portfolio Release" event. The technologies shown to the public were explained and highlighted for their social impact as well as their spin-off potential for investors.

Unveiling the raft of nano-scale technologies developed at AIT, which ranged from hand-held solar water purifiers to gas sensors and from processes for fingerprint identification to metal ion sensing in polluted water, CoEN Director Prof. Jordeep Dutta, said the portfolio release was a culmination of five years of extensive research at the Center of Excellence.

Patents are pending for four of the technologies, Prof. Dutta said, while another seven technologies were successfully demonstrated. Others have been completed, and are ready for patenting and market release.

One key achievement of his team, Prof. Dutta said, was that AIT has demonstrated the use of sunlight for purifying water.

"Most studies so far either work on the use of ultraviolet light or involve a suspension of nanoparticles but the AIT research group has dispensed with both." The center's nanoparticle-based water purifier needs no electricity to operate and is a handheld device, he added.

Attracting attention was as is a fingerprint identification technology where nanoparticles attach only to the ridges of the finger, and leave very little residue. Nanoparticles applied on fingers

enhance contrast, making the process simpler and easier. The technique can also be used on wet surfaces, unlike traditional fingerprinting.

Also shown was an LPG gas-based sensor that seeks to minimize explosive gas-related accidents and is a high density, low power device. Additional innovations were self-cleaning surfaces which could be applied immediately, dispensing with the need to clean building surfaces, allowing savings in spent in maintenance.

Another interesting product was the nanoparticle inkjet printer which is suitable for regular laboratory use. Photocatalytic paper is a type of paper that is reusable and has lower ink absorbency. The paper is low cost and environmentally friendly. Nano solar cells are a product which are low cost and represent an efficient and cost-effective energy source.

Jointly established by the National Science and Technology Development Agency (NSTDA) of Thailand and AIT in April 2006, the Center of Excellence in Nanotechnology is a state-of-the-art research and development facility dedicated to research, and top-class education and training of professionals in nanotechnology. The center is known for making use of inexpensive wet-chemical methods to fabricate innovative materials, along with futuristic components, devices and applications.

"All these products and processes have been developed within five years of establishment of CoEN," Prof. Dutta said. AIT's CoEN is one of the eight centers of Excellence under Thailand National Nanotechnology Center (NANOTEC).

"Our portfolio release in nanotechnology is unique and the first-of-its-kind in Thailand and the region," Prof. Dutta added. "It culminates from intense collaboration between AIT and NSTDA."

The CoEN Director attributes much of AIT's

success to its overwhelming internationality, and the fact that it leverages its connectivity to cutting-edge researchers and academic talent in Thailand, the region and around the world.

The award-winning scientist believes AIT is the right networking platform for adding value to the

PURIFYING WATER WITH SUNLIGHT! Water Purification by ZnO Nanorods

The practical use of visible light and zinc oxide nanorods for destroying bacterial water contamination has been successfully demonstrated by researchers at the Asian Institute of Technology (AIT). Nanorods grown on glass substrates and activated by solar energy have been found to be effective in killing both gram positive and gram negative bacteria.

The research findings have immense possibilities for affordable and environmentally friendly water purification techniques.

“Most studies so far either work on the use of ultraviolet light or involve a suspension of nanoparticles”, revealed Professor Joydeep Dutta, director of the Centre for Excellence in Nanotechnology at AIT. The AIT research group has dispensed with both. Instead of using a suspension of nanoparticles (which have to be removed later after the water purification process) or relying on UV light, the group demonstrated a system featuring visible light and ZnO nanorods. “The key concept was to incorporate deliberate defects in ZnO nanorods by creating oxygen vacancies and interstitials, which then

development and diffusion of new technology, processes, products and facilities for high-tech research. “Our applied research focuses on the development of interdisciplinary nanotechnology products that have application in the corporate world,” Prof. Dutta, said. “AIT wants to share this with Thailand and the rest of the world.”

allows visible light absorption”, he explained.

Such ZnO nanorods grown on glass were tested on *Escherichia coli* and *Bacillus subtilis* bacteria, which are commonly used as model microbes. ZnO dissolves slowly in the dark while releasing zinc ions which have anti bacterial properties; these penetrate the bacterial cell envelope, thereby thwarting the growth of microbes. Under well-lit conditions, the effect is doubled with both photocatalysis and zinc ions playing their part in killing the microbes.

The implications of these experiments are enormous. “Since ZnO has now been tested under solar light instead of the traditionally used UV light, the potential for commercial applications is huge. This is particularly true since the levels of zinc ions removed from the rods to the water are safe for human consumption”, added Dutta.

The team, which also includes Oleg V Shipin, Ajaya Sapkota, Alfredo J Anceno, Sunandan Baruah and Mayuree Jaisai, is continuing its work on photocatalysis for use in water decontamination.

FACULTY MEMBERS



Honorary Faculty

The Institute is deeply grateful that Her Royal Highness Princess Maha Chakri Sirindhorn has seen fit to share her expertise and experience with faculty, staff and students, as an Honorary Faculty Member. In this singular position, Her Royal Highness is associated with the Remote Sensing and Geographic Information Systems Field of Study.

EMERITUS PROFESSORS

Balasubramaniam ,A.S.

B.Sc., Ceylon Univ., Sri Lanka;
Ph.D., Cambridge Univ., U.K.

Edwards,Peter

B.Sc., Liverpool Univ., U.K.;
Ph.D., Univ. of Texas, U.S.A.

Jones, John Hugh

B.S., M.S., Univ. of California ,
U.S.A.

Karasudhi, Pisidhi

B.Eng., Chulalongkorn Univ.;
M.Eng., Chulalongkorn-SEATO
Graduate School of Engineer-
ing, Thailand; Ph.D., Northwest-
ern Univ., U.S.A.

Gupta, Ashim Das

B.Eng., Assam Engineering Col-
lege, India; M.Eng.; D.Eng., AIT,
Thailand

Tabucanon, Mario T.

B.S.E.E., B.S.M.E., Cebu Inst.
of Tech., Philippines; M.Eng.,
D.Eng., AIT, Thailand

Shrestha, Ram M.

B.E., Univ of Baroda; B.L.L.,
Tribhuvan Univ., Nepal; M.Eng.,
D.Eng., AIT, Thailand.

FULL-TIME FACULTY

Afzulpurkar, Nitin V.

B.Eng., Univ. of Poona, India;
Ph.D., Univ. of Canterbury, New
Zealand

Associate Professor, Mechatron-
ics and Microelectronics Fields
of Study and Dean, School of
Engineering and Technology and

Ahmad, Mokbul Morshed

B.Sc, M.Sc., Dhaka Univ., Bang-
ladesh; M.Sc., AIT, Thailand;
Ph.D., Univ. of Durham, U.K.

Associate Professor, Regional
& Rural Development Planning
Field of Study and Associate
Dean for Academic Affairs,
School of Environment, Re-
sources and Development

Ahmed, Kazi Mohiuddin

M.Sc., Inst. of Communications,
Leningrad, USSR; Ph.D., Univ.
of Newcastle, Australia
Professor, Telecommunications
Field of Study

Anal, Anil Kumar

Doctor of Veterinary Medicine,
Univ. of Agriculture, Pakistan;
M.Sc, Ph.D, AIT, Thailand;

Assistant Professor, Food Engi-
neering & Bioprocess Technolo-
gy Field of Study and Associate
Dean for Research & Outreach,
School of Environment, Re-
sources & Development

Annachatre, Ajit P.

B.Tech., Ph.D., Indian Inst. of
Tech., Kanpur, India

Professor, Environmental Engi-
neering & Management Field of
Study and Director, AIT-United
Nations Office

Babel, Mukand S.

B.Eng., Rajasthan Agr. Univ.,
India; M.Eng., D.Eng., AIT,
Thailand

Associate Professor, Water
Engineering Management Field
of Study

Badir, Yuosre F.

B.Sc.,Univ. of Garyounis, Libya;
M.Sc.,Univ. of Putra Malay-
sia, Malaysia; M.Sc., Swiss
Federal Inst. of Tech., Switzer-
land

Assistant Professor and Coordi-
nator, PhD Program School of
Management

Basta, Jiri

B.Sc., Technical High School,

Plzen, Czech Republic; M.Sc., Technical University of Chemical Technology, Prague, Czech Republic; Ph.D., Chalmers Univ. of Technology, Sweden

Visiting Professor, Pulp and Paper Technology Field of Study

Beise-Zee, Rian

Dipl., Wirtschaftsingenieurwesen; Ph.D., Technical Univ. of Berlin, Germany

Associate Professor and Coordinator, Ph.D. Program, School of Management

Bergado, Dennes T.

B.S.C.E., Mindanao State Univ., Philippines; M.Eng., AIT, Thailand, Ph.D., Utah State Univ., U.S.A.

Professor, Geotechnical & Geoenvironmental Engineering Field of Study and Director, Unified Programs

Bohez, Erik L. J.

B.Eng., High Tech. Inst. St. Antonius, Ghent, Belgium M.Eng., State Univ. of Ghent, Belgium

Associate Professor, Industrial Engineering & Management, and Design & Manufacturing Engineering Fields of Study

Charoenngam, Chotchai

B.Eng., King Mongkut's Inst. of Tech., Thonburi, Thailand; M.S., Univ. of Kansas; Ph.D., Univ. of Texas, U.S.A.

Associate Professor, Construction, Engineering & Infrastructure Management Field of Study

Chiu, Gregory L.F.

B.S.C.E., University of Washington, Washington, USA, M.Sc., Columbia University, New York, U.S.A.; Ph.D., Stanford University, California, U.S.A.

Professor of Practice and Coordinator Offshore Technology & Management Field of Study

Clemente, Roberto

B.S.A.E., Univ. of the Philippines at Los Baños, Philippines; M.S., AIT, Thailand; Ph.D., McGill Univ., Canada

Associate Professor, Water Engineering & Management Field of Study

Chonglertham, Supasith

B.Eng., Chulalongkorn Univ., Thailand; MBA Finance, Tulane University, U.S.A.; Ph.D., University of Hawaii, Manoa, U.S.A.

Instructor, School of Management

Dabbadie, Lionel

M.Sc., Montpellier SupAgro, France; Ph.D. University Pierre and Marie Curie, France

Visiting Assistant Professor, Aquaculture & Aquatic Resources Management Field of Study

Dailey, Matthew M.

B.S., M.S., North Carolina State Univ., U.S.A.; Ph.D., Univ. of California, U.S.A.

Assistant Professor, Coordinator, Computer Science and Information Management Fields of Study and Coordinator, Undergraduate Program

Doneys, Philippe

B.A., Univ. of Toronto, Canada; M.A., Univ. of London, England; Ph.D., Institut d' Etudes Politiques de Paris, France

Assistant Professor, Gender & Development Studies Field of Study

Duboz, Raphael

M.A.; University of Marseille, France; M.A. University of Paris 6, France; Ph.D., University of Littoral Cote d'Opale, France

Visiting Assistant Professor, Computer Science & Information Management Fields of Study

Dung, Phan Minh

M.Sc., Ph.D., Univ. of Tech., Dresden, Germany

Professor, Computer Science and Information Management Fields of Study

Dutta, Joydeep

B.Sc., St. Edmund's College, India; M.Sc., North Eastern Hill Univ., India; Ph.D., IACS, Calcutta Univ., India

Professor, Microelectronics Field of Study and Vice President for Academic Affairs

Esichaikul, Vatcharaporn

B.Acc., Chulalongkorn Univ., Thailand; M.B.A., Oklahoma State Univ., U.S.A.; Ph.D., Kent State Univ., U.S.A.

Associate Professor, Information Management Field of Study

Ekpanyapong, Mongkol

B.Eng., Chulalongkorn University, Thailand; M.Eng., AIT, Thailand; M.Sc, Ph.D, Georgia Institute of Technology, U.S.A.

Assistant Professor, Mechatronics & Microelectronics Field of Study

Gallardo, Wenresti G.

B.S., M.S., Univ. of Philippines; M.S., Ph.D., Nagasaki Univ., Japan

Associate Professor and Coordinator, Aquaculture & Aquatic Resources Management Field of Study

Giao, Pham Huy

Dipl. Ing. (MSc), Bucharest University, Romania; M.Eng. and D.Eng., Asian Institute of Technology, Thailand

Associate Professor and Coordinator, Geotechnical and Geoenvironmental Engineering Field of Study

Guha, Sumanta

B.Sc., M.Sc., Univ. of Calcutta, India; Ph.D., Indian Statistical Inst., India; M.S., Ph.D., Univ. of Michigan, U.S.A.

Associate Professor, Computer Science and Information Management Fields of Study

Hadikusumo, B. Harimurti W.

B.Eng., Univ. of Diponegoro, Indonesia; M.Eng., AIT; Ph.D., Univ. of Hong Kong

Associate Professor and Coordinator, Construction, Engineering & Infrastructure Management Field of Study

Igel, Barbara

B.A., M.A., Technical Univ., Berlin; Ph.D., Freie Univ., Berlin, Germany

Associate Professor and Dean, School of Management

Irandoust, Said

M.Sc., Ph.D., Chalmers Univ. of Tech., Sweden

Professor, Environmental Engineering & Management; Energy; and Pulp & Paper Technology Fields of Study, and President, Asian Institute of Technology

Islam, Nazrul

B.Sc.Eng., BUET, Bangladesh; M.Eng., D.Eng., AIT, Thailand

Visiting Professor, School of Management

Janecek, Paul

B.S.E.E., U.S. Military Academy; M.Sc., Univ. of London, U.K.; Ph.D., Swiss Federal Inst. of Tech., Switzerland

Visiting Faculty, Computer Science & Information Management

Jongwanich, Juthathip

B.A., M.A., Thammasat Univ., Thailand; Ph.D., The Australian National University, Australia

Assistant Professor and Coordinator, MBA Program, School of Management

Jourdain, Damien

B.Eng., M.Sc., Ecole Nationale Supérieure Agronomique de Montpellier; Ph.D., Montpellier I University, France

Visiting Assistant Professor, Joint appointment with the School of Engineering & Technology, and School of Environment, Resources & Development

Kachitvichyanukul, Voratas

B.S., Nat'l. Taiwan Univ.; M.Eng., AIT, Thailand; Ph.D., Purdue Univ., Indiana, U.S.A.

Professor, Industrial Engineering & Management, and Design & Manufacturing Engineering Fields of Study

Yoshikazu Kamiya

B.Eng., Yokohama National Univ., Japan; M.Sc., Ph.D., University of Tokyo, Japan

Visiting Faculty, Remote Sensing & Geographic Information Systems Field of Study

Kanchanasut, Kanchana

B.Sc., Univ. of Queensland, Australia; M.Sc., Ph.D., Univ. of Melbourne, Australia

Chair Professor, Thai Network Information Center Computer Science Field of Study

Kanitpong, Kunnawee

B.S., Chulalongkorn Univ., Thailand; M.S., Univ. of Maryland at College Park, U.S.A.; Ph.D., Univ. of Wisconsin-Madison, U.S.A.

Assistant Professor and Coordinator, Transportation Engineering Field of Study

Kanok Nukulchai, Worsak

B.Eng., Chulalongkorn Univ., Thailand; M.Eng., AIT, Thailand; Ph.D., Univ. of California (Berkeley), U.S.A.

Vice President for Resource and Development

Kawasaki, Akiyuki

B.S., Ph.D., Yokohama National University, Japan

Visiting Faculty, Water Engineering & Management Field of Study

Khang, Do Ba

M.Sc., Eotvos Lorand Univ., Hungary; M.Sc., D.Tech.Sc., AIT, Thailand

Associate Professor and Coordinator, EMBA-Vietnam School of Management

Koomsap, Pisut

B.Eng., Thammasat Univ., Thailand; M.Sc., Univ. of Louisville, U.S.A.; Ph.D., Pennsylvania State Univ., U.S.A.

Assistant Professor, Industrial & Manufacturing Engineering Field of Study

Lee, Jungwon

B.Sc., Seoul National Univ., South Korea; M.Sc., Ph.D., Korea Institute of Science & Technology, South Korea

Visiting Professor, School of Management

Limanond, Thirayoot

B.Sc., Chulalongkorn Univ., Thailand; M.Sc., Arizona State Univ., U.S.A., Ph.D., Univ. of California at Davis, U.S.A.,

Assistant Professor, Transportation Engineering

Koottatep, Thammarat

B.Eng., Chiangmai Univ.; M.Eng., D.Eng., AIT, Thailand

Associate Professor, and Coordinator Environmental Engineering & Management Field of Study

Krairit, Donyaprueth

B.S., Thammasat Univ., Thailand; M.S., Univ. of Colorado at Boulder, U.S.A.; Ph.D., Massachusetts Inst. of Tech., Cambridge, U.S.A.

Associate Professor and Coordinator, MBA Program, School of Management

Kumar, Sivanappan

B.E., Univ. of Madras, India; M.Eng., AIT, Thailand; Ph.D.,

Inst. Nat'l. Polytechnique, Toulouse, France

Professor and Coordinator, Energy Field of Study

Kusakabe, Kyoko

B.A., Sophia Univ., Tokyo, Japan; M.Sc., Ph.D., AIT, Thailand

Associate Professor, Gender & Development Studies Field of Study

Luong, Huynh Trung

B.Eng., Ho Chi Minh City Univ. of Tech., Vietnam; M.Eng., D.Eng., AIT, Thailand

Associate Professor, Industrial Engineering & Management Field of Study

Marpuang, Charles O. P.

B.Eng., Bandung Institute of Technology, Indonesia; M.Sc., Bogor Agricultural University, Indonesia; Ph.D., AIT, Thailand
Visiting Faculty, Energy Field of Study

Mohanty, Brahmanand

B.Sc., S.A.I.C.E., India; M.Sc., AIT, Thailand; Ph.D., Institut National Polytechnique of Toulouse, France

Visiting Faculty, Energy Field of Study

Nagai, Masahiko

B.Sc., St. Cloud State University, U.S.A.; M.Sc., Asian Institute of Technology, Thailand; Ph.D., The University of Tokyo, Japan

Visiting Faculty, Remote Sensing & Geographic Information Systems Field of Study and Associate Director, Geoinformatics Center

Nazhad, Mousa M.

B.Sc., Univ. of Tehran, Iran; M.Sc., Univ. of Concordia Montreal; Ph.D., Univ. of British Columbia, Vancouver, Canada
Associate Professor and Coordinator, Pulp & Paper Technology Field of Study

Ninsawat, Sarawut

B.Sc., Silpakorn Univ., Thailand; M.Sc., AIT, Thailand; Ph.D., Osaka City Univ., Japan
Instructor, Remote Sensing & Geographic Information Systems

Nitivattananon, Vilas

B.Eng., Chulalongkorn Univ.; M.A., Thammasat Univ.; M.Eng., AIT, Thailand; Ph.D., Univ. of Pittsburgh, U.S.A.

Assistant Professor and Coordinator, Urban Environmental Management Field of Study

Noomhorm, Athapol

B.Sc., Kasetsart Univ., Thailand; M.Eng., Lamar Univ., Texas; Ph.D., Louisiana State Univ., U.S.A.

Professor and Coordinator, Food Engineering & Bioprocess Technology Field of Study

Kim Oanh, Nguyen Thi

Dip.Eng., Odessa Hydrometeorology Inst., Ukraine; M.Eng., D.Eng., AIT, Thailand

Professor, Environmental Engineering & Management Field of Study

Ongsakul, Weerakorn

B.Eng., Chulalongkorn Univ., Thailand; M.S., Ph.D., Texas A&M Univ., U.S.A.

Associate Professor, Energy Field of Study and Dean, School of Environment, Resources & Development

Park, Kyung-Ho

B.Eng., M.Eng., Korea Univ.; D.Eng., SUNY at Buffalo, U.S.A.

Assistant Professor, Geotechnical & Geoenvironmental Engineering Field of Study

Parkpian, Preeda

B.Sc., Kasetsart Univ., Thailand; M.Sc., Mississippi State Univ.; Ph.D., Texas A&M Univ., U.S.A.

Associate Professor, Environmental Engineering & Management Field of Study

Parnichkun, Manukid

B.Eng., Chulalongkorn Univ., Thailand; M.Eng., Ph.D., Univ. of Tokyo, Japan

Associate Professor, Mechatronics Field of Study and Coordinator, Industrial Systems Engineering

Perera, L.A.S. Ranjith

B.Sc., M.Sc., Univ. of Moratuwa, Sri Lanka; M.Sc., Ph.D., AIT, Thailand

Associate Professor, Urban Environmental Management Field of Study

Perret, Sylvain Roger

M.S., Univ. of Montpellier III, France; DSc, Ecole Polytechnique de Lorraine, Nancy, France; Ph.D., University of Montpellier III, France

Visiting Associate Professor, Joint appointment with the School of Engineering & Technology, and School of Environment, Resources & Development

Phien-wej, Noppadol

B.Eng., Chulalongkorn Univ., Thailand; M.S., Ph.D., Illinois at Urbana Champaign, U.S.A.

Associate Professor, Geotechnical and Geoenvironmental Engineering Field of Study and Associate Dean for Infrastructure & Academic Quality Assurance, School of Engineering and Technology

Pongquan, Soparth

B.Sc., Chiang Mai Univ.; M.Sc., AIT, Thailand; D.Sc., Univ. of Wageningen, The Netherlands

Associate Professor, Regional & Rural Development Planning Field of Study

Rajatheva, R.M.A.P.

B.Sc., Moratuwa Univ., Sri Lanka; M.Sc., Ph.D., Univ. of Manitoba, Canada

Associate Professor, Telecommunications Field of Study and Associate Dean for Undergraduate Program, School of Engineering and Technology

Rakshit, Sudip Kumar

B.Sc., Loyola College; B.Tech., Jadavpur Univ., India; M.Tech, Ph.D., Indian Inst. of Tech., India
Professor, Food Engineering & Bioprocess Technology Field of Study and Vice President for Research

Resurreccion, Bernadette

B.Sc., Assumption College, Philippines; M.A., Ph.D., Inst. of Social Studies, The Hague, The Netherlands
Associate Professor, and Coordinator Gender & Development Studies Field of Study

Routray, Jayant K.

B.Sc.(Hons.), Ravenshaw College; M.Sc., Ph.D., Utkal Univ.; M.R.P., Indian Inst. of Tech., Kharagpur, India
Professor, and Coordinator, Regional & Rural Development Planning Field of Study and Co-coordinator, Disaster Preparation, Mitigation and Management Program

Saengudomlert, Poompat

B.S.E., Princeton Univ.; M.S., Ph.D., Massachusetts Inst. of Tech., U.S.A.
Assistant Professor and Coordinator, Telecommunications Field of Study

Sajor, Edsel

B.Sc., Univ. of the Philippines; M.A., Ph.D., ISS, The Hague, The Netherlands
Associate Professor, Urban Environmental Management Field of Study

Salam, P. Abdul

BSc. Eng.(Hons),Univ. of Peradeniya, Sri Lanka; M.Eng.,D.Eng., AIT, Thailand
Assistant Professor, and Coordinator, Energy Field of Study

Santoso, Djoen San

B.Eng., Parahyangan Catholic Univ., Indonesia; M.Eng., AIT, Thailand; Ph.D., Saitama Univ., Japan
Assistant Professor, Construction, Engineering & Infrastructure Management Field of Study

Sanguankotchakorn, Teerapat

B. Eng., Chulalongkorn Univ., Thailand; M.Eng., D.Eng., Tokyo Institute of Technology, Japan
Associate Professor, Telecommunications Field of Study

Shipin, Oleg V.

M.Sc., Univ. of Saratov; D.Sc., Inst. of Biochemistry and Physiology, Russia
Associate Professor, Environmental Engineering & Management Field of Study

Shivakoti, Ganesh P.

B.S., M.S., Udaipur Univ., India; Ph.D., Michigan State Univ., U.S.A.
Professor, and Coordinator, Agricultural Systems & Engineering, and Natural Resources Management Fields of Study

Shrestha, Rajendra Prasad

B.Sc., Haryana Agricultural Univ., India; M.Sc., D.Tech.Sc., AIT, Thailand
Associate Professor, and Coordinator, Natural Resources Management Field of Study

Sangam Shrestha

M.Sc.,Tribhuvan University, Nepal; M.Sc., AIT, Thailand; Ph.D., Univ. of Yamanashi, Japan
Assistant Professor, Water Engineering & Management Field of Study

Singh, Jai Govind

B.Eng., Motilal Nehru National Institute of Technology, India; M.Tech.; Ph.D, Indian Institute of Technology, India
Assistant Professor, Energy Field of Study

Siengthai, Sununta

B.A., Chulalongkorn Univ., Thailand; M.A., Ph.D., Univ. of Illinois, USA
Associate Professor, School of Management

Soni, Peeyush

B.Eng., College of Technology & Engineering, India; M.Eng., Ph.D., Asian Institute of Technology, Thailand
Instructor, Agricultural Systems and Engineering Field of Study and Coordinator, Agribusiness Management Program

Souris, Marc

M.Sc.,Universite Pierre et Marie Curie, France; Ph.D., Universite de la Rochelle, France
Visiting Professor, Remote Sensing & Geographic Information Systems Field of Study

Sukhotu, Vatcharapol

B.Eng., Kasetsart University, Thailand; M.Eng., University of Houston, Texas, U.S.A., Ph.D., Texas A&M University, College Station, Texas, U.S.A.
Assistant Professor, School of Management

Thammarak, Punchet

B.Eng., Chulalongkorn University, Thailand; Ph.D, The University of Texas, Austin, U.S.A.
Instructor, Structural Engineering Field of Study

Thapa, Gopal B.

B.Sc., Tribhuvan Univ., Nepal; M.Sc., D.Tech.Sc., AIT, Thailand
Professor, Regional and Rural Development Planning Field of Study

Tripathi, Nitin Kumar

B.Tech., Regional Eng. College, India; M.Tech., IIT.; Ph.D., IIT., Kanpur, India
Associate Professor and Coordinator, Remote Sensing & Geographic Information Systems Field of Study and Associate Dean for Promotion, School of Engineering & Technology

Visvanathan, Chettiyappan

B.Tech., IIT, Madras, India;
M.Eng., AIT, Thailand; D.Eng.,
Inst. Nat'l. Polytech., Toulouse,
France

Professor, Environmental Engi-
neering & Management Field of
Study

Pennung Warnitchai

B.Eng., Chulalongkorn Univ.,
Thailand; M.Eng., Ph.D., Tokyo
Univ., Japan

Associate Professor and Coor-
dinator, Structural Engineering
Field of Study and Co-coordi-
nator, Disaster Preparation,
Mitigation and Management
Program

Wongsurawat, Winai

Ph.D., Managerial Economics
& Strategy, Kellogg School of
Management, Northwestern
University, U.S.A.; B.A.S., Eco-
nomics & Mathematical Com-
putational Sciences, Stanford
University, U.S.A.

Assistant Professor, and Coordi-
nator, DBA Program, School of
Management

Wuwongse, Vilas

B.Eng., M.Eng., D.Eng., Tokyo
Inst. of Tech., Japan

Professor, Computer Science
Field of Study

Yakupitiyage, Amaratne

B.Sc., Univ. of Kelaniya, Sri
Lanka; M.Sc., AIT, Thailand;
Ph.D., Univ. of Stirling, Scotland

Associate Professor, and Associ-
ate Dean for SERD Undergradu-
ate, Aquaculture & Aquatic
Resources Management Field of
Study



PARTNERS IN 2011

GOVERNMENTS

China

- State Bureau of Surveying and Mapping of China (SBSM)
- The China Scholarship Council, Ministry of Education

Ethiopia

- Ministry of Agriculture and Rural Development

France

- CENTRE NATIONAL DES ŒUVRES UNIVERSITAIRES ET SCOLAIRES (CNOUS)
- Ministry of Foreign and European Affairs

Germany

- Deutscher Akademischer Austausch Dienst (DAAD), German Academic Exchange Service

Indonesia

- Government of Aceh
- Office of the Deputy Chairman of Facilities and Infrastructure, Ministry National Development Planning/National Development Planning Agency (BAPPENAS)
- The Ministry of Public Works, Republic of Indonesia

Iran

- Iranian Research Organization for Science and Technology (IROST)
- The Iranian Space Agency (ISA), Ministry of Communication and Information Technology

Japan

- Japan Aerospace Exploration Agency (JAXA)
- The National Space Development Agency

Korea

- Korea International Cooperation Agency (KOICA)

Lao PDR

- Ministry of Education, The Government of Lao People's Democratic Republic
- The Mekong River Commission

Maldives

- Civil Service Commission

Nepal

- Department of Food Technology and Quality Control (DFTQC)
- National Centre for Educational Development (NCED), Ministry of Education

Norway

- The Norwegian Ministry of Foreign Affairs

Pakistan

- Commission on Science and Technology for Sustainable Development (COMSATS)
- Government of the Punjab
- The Higher Education Commission (HEC)

Philippines

- Department of Science and Technology (DOST)

Sri Lanka

- Ministry of Housing and Common Amenities
- The Urban Development Authority (UDA)

Sweden

- Swedish International Development Agency (SIDA)

Thailand

- Commission on Higher Education (The Ministry of University Affairs of Thailand)
- Electricity Generating Authority of Thailand
- Environmental Research and Training Center (ERTC)
- Metropolitan Waterworks Authority (MWA)
- National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA)
- National Institute of Development Administration (NIDA)
- National Institute of Metrology
- National Nanotechnology Center (NANOTEC), National Science and Technology Development Agency (NSTDA)
- National Science Museum (NSM)
- Office of the Non-Formal and Informal Education (ONIE)
- Sirindhorn International Environmental Park Foundation under the Patronage of HRH Princess Maha Chakri Sirindhorn
- Software Industry Promotion Agency (SIPA)
- Software Park Thailand, Technology Management Center, National Science and Technology Development Agency
- The Pollution Control Department, Thailand and The Swiss National Centre of Competence in Research North-South Switzerland

The Netherlands

- The Minister for Development Cooperation of the Kingdom of the Netherlands

Vietnam

- Electricity of Vietnam
- Ho Chi Minh City Project 300
- Petrovietnam
- The Ministry of Education and Training, Government of Vietnam

HIGHER EDUCATION AND RESEARCH INSTITUTIONS

Austria

- Universitaet Klagenfurt

Bangladesh

- Ahsanullah University of Science and Technology (AUST)
- American International University
- ASA University Bangladesh (ASAUB)
- Asian University for Women (AUW)
- BRAC University
- Chittagong University of Engineering & Technology
- Darul Ihsan University
- East West University (EWU)
- Eastern University
- Independent University
- Institute of Water Modelling
- National College of Business Administration and Economics (NCBA&E)
- Southeast University (SEU)

Cambodia

- The Faculty of Law and Economics of Phnom Penh; The University of Lyon II AND Royal University of Law and Economics

Canada

- Universite de Montreal

China

- Beijing Jiaotong University
- Chinese Academy of Engineering
- Chinese Academy of Surveying and Mapping
- Guanxi University
- International Research and Training Center for Rural Education
- Lingnan (University) College, Zhongshan University
- Peking University Resource College (PKURC)
- Shanghai Ocean University
- The School of Management & Economics of Beijing Institute of Technology
- Tsinghua University, The School of Economics & Management
- Wuhan University
- Yunnan University

Denmark

- Aalborg University
- Copenhagen Business School (CBS)
- Technical University of Denmark

Finland

- Helsinki School of Economics & Business Administration (HSEBA)
- Helsinki University of Technology
- University of Jyväskylä
- University of Oulu

France

- Centre de Cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD)
- Chamber of Commerce and Industry
- Ecole Centrale de Nantes
- Ecole Superieure de Commerce de Nantes Atlantique (ESCNA)
- EDHEC
- ESCP-Europe (formerly known as ESCP-EAP)
- HEC Grande Ecole
- LM Lyon
- Science Pro Paris (formerly known as The Institut d'Etudes Politiques de Paris)
- SKEMA (formerly known as CERAM)
- Telecom SudParis -TSP (formerly known as National Institute of Telecommunication)
- The Institut National des Telecommunications EVRY
- The Network of Instituts Nationaux Polytechniques (Grenoble, Lorraine, Toulouse -France)
- Universite Pierre et Marie Curie
- University Jean Moulin Lyon 3
- University of La Réunion
- University of Nice-Sophia Antipolis
- University of Pantheon-Sorbonne (Paris I)
- University of Paris Dauphine (Paris IX)
- University of Paris-Sorbonne (Paris IV) -IUE
- University Pantheon-Assas (Paris II)

Germany

- Bauhaus-Universitaet Weimar (BUW)
- Bremen University of Applied Sciences
- European Business School (EBS), Schloss Reichartshausen, Oestrich-Winkel
- Leipzig Graduate School of Management, Handelshochschule Leipzig
- Philipps-Universitaet Marburg
- Stuttgart Institute of Management & Technology (SIMT)
- Technische Universitaet Muenchen (TUM) / Technical University of Munich
- The International University of Germany

Hong Kong

- University of Hongkong (Department of Real Estate and Construction)

India

- Birla Institute of Management Technology (BIM-TECH)
- Fore School of Management
- Indian Institute of Information Technology, Allahabad
- Indian Institute of Management, Calcutta
- Jamia Millia Islamia (JMI)
- Jawaharlal Nehru Technological University Kakinada (JNTUK)
- K.J. Somaiya Institute of Management Studies and Research
- Kalinga Institute of Industrial Technology (KIIT) University, Orissa
- Motilal Nehru National Institute of Technology (MNNIT)
- Padampat Singhania School of Engineering (PSSE)
- Pearl School of Business
- PSG Institute of Advanced Studies
- Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS) - Deemed University
- Shivaji University (SU)
- Sri Jayachamarajendra College of Engineering, Mysore
- T.A.Pai Management Institute (TAPMI)
- TempleCity Institute of Technology and Engineering
- TERI University
- Vishwakarma School of International Studies

Indonesia

- Faculty of Engineering, Universitas Gadjah Mada
- Institut Teknologi Sepuluh Nopember (ITS) or Sepuluh Nopember Institute of Technology
- State Islamic University
- Udayana University, Bali
- Universitas Andalas (UNAND)
- Universitas Gadjah Mada
- Universitas Katolik Parahyangan
- Universitas Mulawarman
- Universitas Padjadjaran
- University of Sriwijaya

Iran

- Agricultural Engineering Research Institute (AERI)
- Amirkabir University of Technology
- Islamic Azad University (IAU)
- University of Science and Culture (USC)
- University of Tabriz

Japan

- Chubu University
- Department of Civil and Earth Resources Engineering, Kyoto University
- Faculty of Fisheries Science, Hokkaido University
- Hokkaido University

- Institute of Industrial Science, Asian Association of Remote Sensing, The University of Tokyo
- International Center for Urban Safety (ICUS) Engineering, Institute of Industrial Science, The University of Tokyo
- International University of Japan (IUJ)
- Japan Advanced Institute of Science and Technology (JAIST)
- Keio University
- Kyoto University, Graduate School of Engineering/Graduate School of Global Environmental Studies/Graduate School of Management
- Mie University
- Nagaoka University of Technology
- National Institute for Environmental Studies (NIES)
- Research and Development Center of Nippon Koei Co., Ltd.
- Saga University
- The National Institute of Informatics
- The United Nations University
- The University of Tokyo
- The University of Tsukuba
- Tohoku University
- Tokyo Institute of Technology
- Toyo University,
- University of Yamanashi, Center of Excellence for Research and Education on Integrated River Basin Management in Asian Monsoon Region
- Utsunomiya University

Kazakhstan

- Almaty Institute of Power Engineering & Telecommunication
- JSC New University Astana

Korea

- Hanyang University
- Konkuk University
- Korea Advanced Institute of Science and Technology
- Korea Infrastructure Safety & Technology Corporation
- Korea Institute of Construction Technology
- Korea Institute of Geoscience and Mineral Resources
- Korea Institute of Science and Technology
- Korea University
- Korea University of Science and Technology
- Kumoh National University of Technology
- Pukyong National University
- Seoul National University
- SK Construction & Engineering Co., Ltd
- The Ajou University, Institute of Energy Systems and Climate Change (IECC)
- Yeungnam University

Kyrgyz Republic and Tajikistan and His Highness Aga Khan

- University of Central Asia (UCA)

Malaysia

- Universiti Putra Malaysia
- Universiti Teknologi Mara (UiTM)

Myanmar

- Mandalay Technological University, Myanmar
- Yangon Technological University, Myanmar

Nepal

- Kathmandu University
- Local Development Training Academy (LDTA)
- National Banking Training Institute
- National Information Technology Institute (NITI)
- Nepal Academy of Science and Technology
- Nepal Administrative Staff College (NASC)
- Pokhara University
- Purbanchal University
- South Asian Institute of Management

Nigeria

- Federal University of Technology, Akure

Norway

- Norwegian University of Life Sciences
- Norwegian University of Science and Technology

Pakistan

- Balochistan University of Engineering and Technology, Khuzdar
- Balochistan University of Information Technology, Engineering & Management Sciences, Quetta (BUITEMS)
- Government College University, Lahore (GCU, Lahore)
- Lahore College for Women University
- Mehran University of Engineering and Technology, Jamshoro
- National University of Sciences & Technology, Islamabad
- NED University of Engineering and Technology, Karachi
- Sukkur Institute of Business Administration
- The University of Faisalabad
- University of Engineering & Technology, Lahore
- University of Engineering & Technology, Taxila
- University of Veterinary and Animal Sciences (UVAS), Lahore

Philippines

- Asian Institute of Management
- Mindanao Polytechnic State College
- University of the Cordilleras

Portugal

- Universidade de Minho

Spain

- Universitat Politecnica de Catalunya

- Poznań University of Economics
- Escuela de Alta Direccion y Administracion (EADA), Barcelona

Sri Lanka

- International College of Business and Technology (ICBT), a member of Ceylinco Consolidated
- Sabaragamuwa University
- South Asian Institute of Technology and Management
- University of Vocational Technology

Sweden

- Chalmers University of Technology
- KTH, Kungliga Tekniska hogskolan
- Linköping University
- The University of Kalmar
- University of Boras

Switzerland

- National Centre of Competence in Research North-South (NCCR N-S), Center for Development and Environment, University of Berne Steigerhubelstrasses 3
- University of Applied Sciences Eastern Switzerland
- University of Applied Sciences Northwestern Switzerland FHNW

Taiwan

- Chia Nan University of Pharmacy and Science
- Department of Civil Engineering, National Taiwan University
- National Cheng Kung University
- National Chung Hsing University
- National Pingtung University of Science & Technology (NPUST)
- National Taiwan Ocean University
- National Taiwan University
- National Yunlin University of Science and Technology
- Yuan Ze University

Thailand

- Asian University (AU)
- Chiang Mai University
- Chulabhorn Research Institute and Mahidol University
- Chulachomklao Royal Military Academy
- Faculty of Engineering, Chulalongkorn University
- Center of Excellence Building and Environmental Technology of Faculty of Architecture (CE), Chulalongkorn University
- Kasetsart University, Faculty of Forestry
- Naresuan University
- Pathumthani Province and Educational and Research institutions in Pathumthani Province
- Rangsit University
- Ruamrudee International School

- Srinakharinwirot University - Institute for the Promotion of Teaching Science and Technology
- Srinakharinwirot University - Software Industry Promotion Agency

Uganda

- Busitema University

United States of America

- Department of Agricultural Economics, Kansas State University, Kansas
- Institute for Scientific Research (ISR), Boston College
- Oregon State University (OSU)
- Robert Morris University
- University of Rhode Island, The Coastal Resources Center

United Kingdom

- Aston Business School, Aston University
- University of East London

Vietnam

- Danang University of Technology (DUT)
- Foundation Engineering Institute (FECON INS)
- FPT University
- Hanoi University of Agriculture
- Hanoi University of Agriculture
- Hanoi University of Technology
- Ho Chi Minh City University of Architecture
- Hong Duc University
- Hue University of Agriculture and Forestry
- International University
- Nong Lam University
- University of Economics and Business
- University of Transport and Communications
- Vietnam National University
- Vietnam Petroleum Institute

Yugoslavia

- University of Novi Sad, Faculty of Technical Sciences, Serbia

ERASMUS MUNUS (EU MOBILITY PROGRAMS)

Erasmus Mundus Action 1.a – Joint Masters Programmes in which the students can follow part of their studies in different universities including Asian universities for internship:

- European Master Advanced Robotics Program (EMARO) coordinated by Ecole Centrale de Nantes, France
- MIND Master's programme in Industrial Ecology, coordinated by U. of Graz - Austria

Erasmus Mundus Action 1.b – Joint Doctorates in which the students can follow part of their studies in different universities including Asian universities for internship:

- ETeCoS3, Environmental Technologies for Contaminated Solids, Soils and Sediments coordinated by UNICAS, Italy

Erasmus Mundus Action 2 – Mobility Partnerships between a European and an Asian Consortium:

- EM EuroAsia by U. of Boras (Sweden)
- Bridging the Gap coordinated by U. of Trento (Italy)
- EM EMMA coordinated by U. of Nice (France)
- EM MAHEVA coordinated by U. of Montpellier 2 (France)

Erasmus Mundus Action 3 – Attractiveness projects:

- EACOVIOE (Enhance the Attractiveness of Computer Vision and Robotics in Europe), coordinated by U. of Burgundy (France)

PRIVATE SECTOR

Bangladesh

- Bangladesh Bank
- Design Planning and Management Consultants Ltd. (DPM)
- Institute of Microfinance
- Yunus Center

Bhutan

- Bank of Bhutan Limited

China

- YueHan Shanghai Trading Co., Ltd.

Finland

- Metso Paper, Inc.

Hong Kong

- CSR Asia Ltd.

India

- GIS Development Private Limited, Noida
- Global Reach
- Modi International Studies, Indore
- Speck Systems Ltd., Hyderabad
- United Group of Institutions

Indonesia

- Pt. Damba Intra

Iran

- Research and Consulting Company of Shakhes-Sazan

Japan

- Ebara Hatakeyama Memorial Fund

Myanmar

- Myanma Computer Company Ltd. (MCC)
- Myanmar Egress
- United Network - Management and Business Center (UN-MBC)
- Water, Research and Training Center (WRTC)

Nepal

- Hydro Lab Pvt. Ltd.

- NEC Consultants (Private) Limited
- Nepal Airlines Corporation

Norway

- Norwegian Electricity

Pakistan

- Hyderabad Electric Supply Company Limited (HESCO)
- Islamabad Electric Supply Company Limited (IESCO)

Singapore

- Asian Aquaculture Network (AAN)
- John Deere Asia (Singapore) Pte Ltd
- LifeWay Holdings Pte Ltd
- Skydoor Pte Ltd

Sri Lanka

- Ceylinco Education Group
- Epic Lanka Group
- Sri Lanka Land Reclamation & Development Corporation
- Sri Lankan Airlines Limited

Taiwan

- ST International Co., Ltd., BVI

Thailand

- Buildersmart Public Co., Ltd.
- Donaldson (Thailand) Ltd.
- Global Siam Gate Company Limited (GSG)
- IBM, Thailand
- Innotech Golf Co., Ltd.
- Innovative Interfaces, Inc.
- Sodexo Support Services (Thailand) Ltd.
- TEAM Group of Companies Co., Ltd.
- Thai Carbon Black PCL
- The Siam Cement Public Company Limited
- The Thai Network Information Center Foundation
- Total Gas & Power
- Western Digital (WD) (Thailand) Co., Ltd.

Vietnam

- Portcoast Consultant Corporation

ASSOCIATION

Australia

- The International Centre of Excellence in Water Resources Management (ICEWaRM)

Myanmar

- Myanmar Engineering Society (MES)

Nepal

- Nepal Education Foundation - Consortium of Colleges (NEF-CCN)

Philippines

- Angeles University Foundation (AUF)

Thailand

- Anti-Global Warming Foundation

- The AIT Alumni Association
- Total E&P Thailand (TEPT) and Total Professors Association (TPA)

INTERNATIONAL ORGANIZATIONS

France

- Télécoms Sans Frontières (TSF)

Germany

- Katholischer Akademischer Auslander-Dienst (KAAD)

Indonesia

- ASEAN Center for Energy (ACE)
- UN Partnership Research Fund - OWATER Project

Japan

- Institute for Global Environmental Strategies (IGES)

Maldives

- The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)

Nepal

- International Centre for Integrated Mountain Development (ICIMOD)

Tanzania

- The Global Horticulture Initiative (GlobalHort)

Thailand

- Asia-Pacific Association of Agricultural Research Institutions (APAARI)
- Coastal Resources Institute Foundation (CORIN-Asia)
- Coordinating Committee for Geoscience Programmes in East and Southeast Asia
- Habitat for Humanity Thailand
- The Asian and Pacific Centre for Transfer of Technology (APCTT), ESCAP
- United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)
- United Nations Environment Programme Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP)

The Netherlands

- Gender and Water Alliance (GWA)
- The UNESCO-IHE Institute for Water Education

United States of America

- Asian Development Bank
- International Bank for Reconstruction and Development (World Bank Group)
- International Fellowships Fund, Inc.
- The Bridge Fund (TBF)

Vietnam

- International Centre for Advanced Research on Global Change (ICARGC)

FINANCIAL REPORT

Audit report of Certified Public Accountant

TO THE BOARD OF TRUSTEES OF ASIAN INSTITUTE OF TECHNOLOGY

I have audited the accompanying statements of financial position of Asian Institute of Technology as at 31 December 2011 and 2010, and the related statements of revenues and expenses, changes in fund balances and cash flows for 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 position of Asian Institute of Technology as at 31 December 2011 and 2010, and the revenues and expenses, the changes in fund balances and cash flows for the years then ended, in accordance with generally accepted accounting principles.

As explained in notes 2 and 3 to the financial statements, with effect from 1 January 2011 the Institute has adopted the Financial Reporting Standard for Non-Publicly Accountable Entities.

(Bongkot Amsageam)

Certified Public Accountant

Registration No. 3684

KPMG Phoomchai Audit Ltd. Bangkok 8 May 2012

	Note	2011	2010
		(in Baht)	
STATEMENTS OF FINANCIAL POSITION			
ASSETS			
Current assets			
Cash and cash equivalents	6	379,939,927	336,142,199
Current investments	7	391,839,305	419,214,785
Accounts receivable	8	126,467,114	86,822,019
Receivables from Program fund		40,571,324	19,083,313
Assets held on behalf of donors	12	258,298,311	403,174,130
Assets held on behalf of UNEP RRC.AP	13	162,413,482	158,348,861
Other current assets		31,756,771	56,015,832
Total current assets		1,391,286,234	1,478,801,139
Non-current assets			
Restricted deposits of financial institutions	6	15,050,000	20,273,741
Property and equipment	9	483,541,715	647,514,252
Advance deposits		14,492	43,365
Total non-current assets		498,606,207	667,831,358
Total assets		1,889,892,441	2,146,632,497
LIABILITIES AND FUND BALANCES			
Current liabilities			
Accounts payable and accrued expenses	10	244,556,681	138,241,031
Advances from Program fund		110,733,165	117,884,288
Deposit payables		5,855,481	5,780,128
Amounts due to donors	12	258,298,311	403,174,130
Amounts due to UNEP RRC.AP	13	162,413,482	158,348,861
Total current liabilities		781,857,120	823,428,438
Non-current liabilities			
Employee benefit obligations	11	29,613,219	-
Total non-current liabilities		29,613,219	-
Total liabilities		811,470,339	823,428,438
Fund balances			
Endowment fund balances		163,775,074	162,857,887
Capital funds balances		483,909,180	647,514,251
General reserve		430,737,848	512,831,921
Total fund balances		1,078,422,102	1,323,204,059
Total liabilities and fund balances		1,889,892,441	2,146,632,497

	Note	2011	2010
		(in Baht)	
STATEMENTS OF REVENUES AND EXPENSES			
Income			
Tuition and other fees		527,567,935	550,239,379
Research grants and contract service income		53,987,003	95,850,122
Support operations		146,347,910	157,675,279
Training		104,905,697	158,612,058
Other contributions		15,296,838	17,542,478
Faculty secondments		36,940,571	48,723,713
Total income		885,045,954	1,028,643,029
Expenses			
Salaries and benefits	14	422,775,255	426,698,740
Materials, supplies and services		201,617,811	190,507,029
Contracted services		201,326,503	230,065,191
Communication and travel		36,514,059	65,687,074
Utilities and insurance		40,673,774	49,790,827
Faculty secondments		36,940,571	48,723,713
Total expenses		939,847,973	1,011,472,574
Excess of income over (under) expenses		(54,802,019)	17,170,455
Depreciation	9	61,304,325	63,829,831
Income under expenses including depreciation		(116,106,344)	(46,659,376)
Non operating expenses			
Investment income		31,430,491	20,479,158
Loss on exchange rate		(4,705,224)	(7,100,719)
Gain (loss) on disposal of assets		(169,978,191)	128,270
Income under expenses		(259,359,268)	(33,152,667)

Note	2011	2010
	(in Baht)	

STATEMENTS OF CASH FLOWS**Cash flows from operating activities**

Opening fund balances	1,323,204,059	1,364,684,642
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Closing fund balances	1,078,422,102	1,323,204,059
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Movement in fund balances	(244,781,957)	(41,480,583)
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Adjustments to reconcile movement of fund balances

Doubtful debts (reversal)	8	(20,276,854)	3,376,555
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Doubtful debts for other receivables		52,051,993	2,420,000
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Gain on disposal of assets		(84,644)	(128,270)
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Loss on write off damaged fixed asset from flooding		170,060,302	-
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Depreciation		61,304,325	63,829,831
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Unrealised loss (gain) on exchange rate		(13,476,903)	18,724,737
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Movement in fund balances from operating activities before changes in operating assets and liabilities		4,796,262	46,742,270
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Changes in operating assets and liabilities:

Accounts receivable		(17,381,433)	(14,640,414)
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Receivables from Program fund		(21,488,011)	(407,914)
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Inventories		-	111,803
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Other current assets		(27,792,931)	(17,402,259)
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Advance deposits		28,873	42,707
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Accounts payable and accrued expenses		135,928,869	(4,366,921)
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Advances from Program fund		(7,151,123)	(12,148,183)
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Deposit payables		75,353	(440,019)
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Net cash provided by (used in) operating activities		67,015,859	(2,508,930)
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Cash flows from investing activities

Decrease (increase) in current investments		27,375,480	(183,056,737)
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Decrease (increase) in restricted deposits of financial institutions		367,333	(5,000,000)
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Purchase of property and equipment		(67,504,398)	(64,688,092)
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Proceeds from sale of equipment		5,223,741	188,078
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Net cash used in investing activities		(34,537,844)	(252,556,751)
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Net increase (decrease) in cash and cash equivalents		32,478,015	(255,065,681)
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Cash and cash equivalents at beginning of year		336,142,199	605,278,622
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Effects of exchange rate changes on balances held in foreign currencies		11,319,713	(14,070,742)
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Cash and cash equivalents at end of year	6	379,939,927	336,142,199
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Note	Unrestricted Current fund	Restricted funds				Restricted general reserve	Restricted capital funds		Agency fund	Total	
		Restricted fund-general	Endowment fund	Program fund	Integrated facility management		Property and equipment	Liquid assets		31 December 2011	31 December 2011
(in Baht)											
STATEMENTS OF FINANCIAL POSITION											
Assets											
Current assets											
6	70,613,217	1,800,124	42,439	76,299,280	487,214	225,273,772	5,409,740	14,141	-	379,939,927	336,142,199
7	7,600,516	1,766,314	163,762,367	13,254,652	-	205,455,456	-	-	-	391,839,305	419,214,785
8	54,072,126	6,120,526	-	59,197,420	7,077,042	-	-	-	-	126,467,114	86,822,019
	-	-	-	40,571,324	-	-	-	-	-	40,571,324	19,083,313
12	-	-	-	-	-	-	-	-	258,298,311	258,298,311	403,174,130
13	-	-	-	-	-	-	-	-	162,413,482	162,413,482	158,348,861
	15,400,799	2,599,422	12,707	11,239,283	2,460,940	8,620	35,000	-	-	31,756,771	56,015,832
Total current assets	147,686,658	12,286,386	163,817,513	200,561,959	10,025,196	430,737,848	5,444,740	14,141	420,711,793	1,391,286,234	1,478,801,139
Non-current assets											
	-	-	-	15,050,000	-	-	-	-	-	15,050,000	20,273,741
9	-	-	-	-	-	-	483,541,715	-	-	483,541,715	647,514,252
	14,492	-	-	-	-	-	-	-	-	14,492	43,365
	14,492	-	-	15,050,000	-	-	483,541,715	-	-	498,606,207	667,831,358
Total assets	147,701,150	12,286,386	163,817,513	215,611,959	10,025,196	430,737,848	488,986,455	14,141	420,711,793	1,889,892,441	2,146,632,497
Liabilities and fund balances											
Current liabilities											
10	118,666,108	9,222,041	42,439	104,878,794	6,655,883	-	5,077,275	14,141	-	244,556,681	138,241,031
	-	-	-	110,733,165	-	-	-	-	-	110,733,165	117,884,288
	1,153,882	1,332,286	-	-	3,369,313	-	-	-	-	5,855,481	5,780,128
12	-	-	-	-	-	-	-	-	258,298,311	258,298,311	403,174,130
13	-	-	-	-	-	-	-	-	162,413,482	162,413,482	158,348,861
Total current liabilities	119,819,990	10,554,327	42,439	215,611,959	10,025,196	-	5,077,275	14,141	420,711,793	781,857,120	823,428,438
Non-Current liabilities											
	27,881,160	1,732,059	-	-	-	-	-	-	-	29,613,219	-
Total liabilities	147,701,150	12,286,386	42,439	215,611,959	10,025,196	-	5,077,275	14,141	420,711,793	811,470,339	823,428,438
Fund balances											
	-	-	163,775,074	-	-	-	-	-	-	163,775,074	162,857,887
	-	-	-	-	-	-	483,909,180	-	-	483,909,180	647,514,251
	-	-	-	-	-	430,737,848	-	-	-	430,737,848	512,831,921
Total fund balances	-	-	163,775,074	-	-	430,737,848	483,909,180	-	-	1,078,422,102	1,323,204,059
Total liabilities and fund balances	147,701,150	12,286,386	163,817,513	215,611,959	10,025,196	430,737,848	488,986,455	14,141	420,711,793	1,889,892,441	2,146,632,497

	Note	Unrestricted Current fund	Restricted funds				Restricted general reserve	Restricted capital funds		Total	
			Restricted fund-general	Endowment fund	Program fund	Integrated facility management		Property and equipment	Liquid assets		
STATEMENTS OF REVENUES AND EXPENSES											
(in Baht)											
Income											
Tuition and other fees		438,267,617	-	-	89,300,318	-	-	-	-	527,567,935	550,239,379
Research grants and contract service income		8,854,428	6,877,341	-	36,720,715	-	1,534,519	-	-	53,987,003	95,850,122
Support operations		4,996,165	46,566,350	-	-	94,785,395	-	-	-	146,347,910	157,675,279
Training		-	-	-	104,905,697	-	-	-	-	104,905,697	158,612,058
Other contributions		9,102,983	5,129,725	599,349	421,516	-	-	43,265	-	15,296,838	17,542,478
Faculty secondments		-	36,940,571	-	-	-	-	-	-	36,940,571	48,723,713
Total income		461,221,193	95,513,987	599,349	231,348,246	94,785,395	1,534,519	43,265	-	885,045,954	1,028,643,029
Expenses											
Salaries and benefits	14	295,279,110	41,770,509	-	82,723,796	3,001,840	-	-	-	422,775,255	426,698,740
Materials, supplies and services		88,855,806	30,238,194	195,402	60,677,208	21,651,201	-	-	-	201,617,811	190,507,029
Contracted services		39,431,182	7,413,192	-	49,299,248	105,182,881	-	-	-	201,326,503	230,065,191
Communication and travel		12,375,734	4,787,474	-	19,346,595	4,256	-	-	-	36,514,059	65,687,074
Utilities and insurance		1,367,600	(654,048)	-	2,543,953	37,416,269	-	-	-	40,673,774	49,790,827
Faculty secondments		-	36,940,571	-	-	-	-	-	-	36,940,571	48,723,713
Total expenses		437,309,432	120,495,892	195,402	214,590,800	167,256,447	-	-	-	939,847,973	1,011,472,574
Income over (under) expenses including depreciation		23,911,761	(24,981,905)	403,947	16,757,446	(72,471,052)	1,534,519	43,265	-	(54,802,019)	17,170,455
Depreciation	9	-	-	-	-	-	-	61,304,325	-	61,304,325	63,829,831
Income over (under) expenses including depreciation											
Non operating expenses											
Investment income		19,122,734	11,041,292	513,241	-	-	753,224	-	-	31,430,491	20,479,158
Gain (loss) on exchange rate		4,355,586	(9,385,962)	-	325,152	-	-	-	-	(4,705,224)	(7,100,719)
Gain (loss) on disposal of assets		-	8,132	-	-	-	-	(169,986,323)	-	(169,978,191)	128,270
Income over (under) expenses		47,390,081	(23,318,443)	917,188	17,082,598	(72,471,052)	2,287,743	(231,247,383)	-	(259,359,268)	(33,152,667)

NOTE TO THE FINANCIAL STATEMENTS

These notes form an integral part of the financial statements.

The financial statements issued for Thai statutory and regulatory reporting purposes are prepared in the Thai language. These English language financial statements have been prepared from the Thai language statutory financial statements, and were approved and authorized for issue by the President of the Institute on 8 May 2012.

1. General information

The Asian Institute of Technology (“the Institute”) is a regional post-graduate institution. The Institute operates on a not-for-profit basis. The Institute is located at Km 42 Paholyothin Highway, Klong Luang, Pathumthani, Thailand.

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 are prepared in accordance with Thai Financial Reporting Standard for Non-publicly Accountable Entities (TFRS for NPAEs) promulgated by the Federation of Accounting Professions (FAP) during 2011. The adoption of these TFRS for NPAEs has resulted in changes in the Institute’s accounting policies. The effects of those changes that have had a significant impact on the Institute’s financial statements are disclosed in note 4.

In addition, the Institute has complied with Thai Financial Reporting Standard for Publicly Accountable Entities as follows:

TFRS	Topic
TAS 7 (revised 2009)	Statement of Cash Flows

The financial statements are prepared and presented in Thai Baht, rounded in the notes to the financial statements to the nearest thousand. They are prepared on the historical cost basis except as stated in the accounting policies.

The preparation of financial statements in conformity with TFRS for NPAEs requires management to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets, liabilities, income and expenses. Actual results may differ from estimates.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the year in which estimates are revised and in any future periods affected.

Information about significant areas of estimation uncertainty and critical judgements in applying accounting policies that have the most significant effect on the amount recognised in the financial statements is included in the following notes:

Note 3 Impact of severe flooding in Thailand

Note 11 Employee benefit obligations

Note 17 Contingent liabilities

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” which is appropriate for a non-profit organisation. 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 most of the academic and administrative units of the Institute. It is available for general operating purposes without restrictions, such as might be imposed by a grant agency or donor.

Unrestricted Fund-General (Fund 21)

This fund is the operating account of support units that offer academic-related services and certain administrative functions.

Restricted Endowment Fund (Fund 22)

The Endowment Fund is used where donors have stipulated, as a condition of their gift, either the principal is to be maintained inviolate and in perpetuity or used along with the income to meet the objectives of the endowment.

Restricted Fund-General Reserve (Fund 23)

The annual surplus of the unrestricted funds and the excess of the activities under Sponsored Program fund that were completed during the year, are transferred to the General Reserve each year. General Reserve funds are held for future use.

Unrestricted Fund-Integrated facility management (Fund 24)

This fund includes the operating account of the Institute for asset maintenance and for the provision of the Institute's non-core operations, mainly on integrated facilities management service.

Restricted Sponsored Program Fund (Fund 30 and Fund 31)

The Sponsored program fund includes academic and non-academic programs. Non-academic programs is subject to restrictions by donors or other agencies limiting its use for funding specific research projects, conference, 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 and Fund 60)

These funds are held on behalf of donors and other agencies and are disbursed in accordance with their instructions. The Institute has no title to these funds and the associated revenues and expenses have been excluded from the statement of revenues and expenses. 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. Impact of severe flooding in Thailand

The Institute's operations in Pathumthani have been affected by the unusually severe flooding affecting parts of Thailand. Operation at the Pathumthani campus stopped on 15 October 2011 and was not started until February 2012. The loss of damaged asset from the flood incident was estimated to be approximately Baht 170 million and recorded in the books of accounts as at and for the year ended 31 December 2011. The insurers and loss adjusters have had full access to the affected areas since January 2012 but have thus far not finalised their assessment. Management believes that any losses arising as a consequence of the flooding will be recovered from insurance.

4. Changes in accounting policies

From 1 January 2011, the Institute adopted TFRS for NPAEs as set out in note 2. There is no significant impact on the Institute's financial statements except that, as required by TFRS for NPAEs, the Institute has made provision for employee benefit obligations based on the best estimate method. Previously, such obligations were expensed when incurred.

Management estimated the Institute's employee benefit obligation as at 31 December 2011 is Baht 27.9 million. The Institute has recorded this liability as an expense in 2011, in accordance with FAP Announcement no. 29/2554. The change in accounting policy resulted in an increase in salaries and benefit expenses for the year of Baht 27.9 million; and decrease in income over expenses for the year of Baht 27.9 million.

5. Significant accounting policies

The accounting policies set out below have been applied consistently to all periods presented in these financial statements except as explained in note 4, which addresses changes in 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

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

(b) Foreign currencies

Foreign currency transactions

Transactions in foreign currencies are translated into Thai Baht at the foreign exchange rates ruling at the dates of the transactions.

Monetary assets and liabilities denominated in foreign currencies at the reporting date are translated to Thai Baht at the foreign exchange rates ruling by the Bank of Thailand at that date. Foreign exchange differences arising on translation are recognised in the statement of revenues and expenses.

Non-monetary assets and liabilities measured at cost in foreign currencies are translated to Thai Baht using the foreign exchange rates ruling at the dates of the transactions.

Foreign entities

The assets and liabilities of foreign entities are translated to Thai Baht at the foreign exchange rates ruling at the reporting date.

The revenues and expenses of foreign entities are translated to Thai Baht at rates approximating the foreign exchange rates ruling at the dates of the transactions.

Foreign exchange differences arising on translation are recognised in the statement of revenues and expenses.

(c) Cash and cash equivalents

Cash and cash equivalents comprise cash balances, call deposits and highly liquid short-term investments.

(d) Accounts and other receivables

The allowance for doubtful accounts is provided for inactive students. Bad debts are written off when incurred.

(e) Property and equipment

Owned assets

Property and equipment are stated at cost less accumulated depreciation and losses on decline in value.

Cost includes expenditure that is directly attributable to the acquisition of the asset. The cost of self-constructed assets includes the cost of materials and direct labour, any other costs directly attributable to bringing the assets to a working condition for their intended use, the costs of dismantling and removing the items and restoring the site on which they are located and capitalised borrowing costs. Purchased software that is integral to the functionality of the related equipment is capitalised as part of that equipment.

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.

When parts of an item of property and equipment have different useful lives, they are accounted for as separate items (major components) of property and equipment.

Gains and losses on disposal of an item of property and equipment are determined by comparing the proceeds from disposal with the carrying amount of equipment, and are recognised net within other income in the statements of revenues and expenses.

Subsequent costs

The cost of replacing a part of an item of property and equipment is recognised in the carrying amount of the item if it is probable that the future economic benefits embodied within the part will flow to the Institute, and its cost can be measured reliably. The carrying amount of the replaced part is derecognised. The costs of the day-to-day servicing of property and equipment are recognised in the statements of revenues and expenses as incurred.

Depreciation

Depreciation is calculated based on the depreciable amount, which is the cost of an asset, or other amount substituted for cost, less its residual value.

Depreciation is charged to the statement of revenues and expenses on a straight-line basis over the estimated useful lives of each component of an item of assets. The estimated useful lives are as follows:

Campus development	10	years
Building improvement	10	years
Buildings	40	years
Furniture and equipment	5, 10	years
Transportation equipment	8	years
Library assets	6	years

No depreciation is provided on assets under construction.

(f) Losses on decline in value

The carrying amounts of the Institute's assets are reviewed at each reporting date to determine whether there is any indication of a permanent decline in value. If any such indication exists, the assets' recoverable amounts are estimated. A loss on decline in value is recognised in the statements of revenues and expenses.

(g) Payables

Payables are stated at cost.

(h) Provisions

A provision is recognised if, as a result of a past event, the Institute has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by the best estimate method.

Employee benefits

Obligations for retired benefits and other long-term employee benefits are recognised using the best estimate method at the reporting date.

Defined contribution plans

Obligations for contributions to the Social Securities Fund, Provident Fund and Insured Saving Fund are recognised as expenses in the statement of revenues and expenses as incurred.

(i) Revenue

Revenue received for the provision of goods and services are recognised in the period in which the goods are provided or the services rendered.

Tuition and other fees

Tuition and other fees are recognised on an accrual basis.

Research Grant and Contract service income

Research grant and contract service income received from Donors/Sponsors under Sponsored Program Fund (Fund 30) is recognised when service are rendered and projects are completed.

Support operations

Support operations are recognised as services are provided.

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 recognised on a cash basis.

Contribution in kind (Faculty secondments)

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 recognised as revenues and expenses in the unrestricted general fund.

Investment income

Investment income is recognised on an accrual basis.

(j) Expenses

Lease payments

Payments made under operating leases are recognised in the statement of income on a straight line basis over the term of the lease.

Contingent lease payments are accounted for by revising the minimum lease payments over the remaining term of the lease when the lease adjustment is confirmed.

(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).

Except for services rendered by the Conference Center, the Institute has been exempted from Value Added Tax (VAT), under Section 4(4) of the Royal Decree issued under the Revenue Code governing exemption from Value Added Tax (No. 239), B.E. 2534 which was additionally amended under the Royal Decree (No. 254) B.E. 2535.

6. Cash and cash equivalents

	2011	2010
	<i>(in thousand Baht)</i>	
Bank accounts	369,363	195,685
Fixed deposits with maturity three months or less	10,577	140,457
Total	379,940	336,142

7. Current investments

	2011	2010
	<i>(in thousand Baht)</i>	
Fixed deposits with maturity more than three months	406,889	439,489
Less Deposits pledged as collateral	(15,050)	(20,274)
Net	391,839	419,215

As at 31 December 2011, fixed deposits of Baht 15.1 million (2010: Baht 20.3 million) were pledged as collateral for bank overdraft and outstanding letters of guarantee issued by the same bank (see note 16).

8. Accounts receivable

	2011	2010
	<i>(in thousand Baht)</i>	
Tuition and other fees	79,791	59,252
Others	46,676	47,847
	126,467	107,099
Less allowance for doubtful accounts	-	(20,277)
Net	126,467	86,822
Reversal of doubtful debts expenses for the year	-	(3,377)

9. Property and equipment

	Campus development	Building and building improvement	Furniture and equipment	Transportation equipment	Library assets	Assets under construction	Total
<i>(in thousand Baht)</i>							
Cost							
At 1 January 2010	51,685	1,146,329	899,959	15,620	274,015	5,633	2,393,241
Additions	3,492	377	40,365	197	7,122	13,135	64,688
Disposals	-	-	(12,850)	(348)	-	-	(13,198)
Transfers	-	(200)	(657)	(154)	-	-	(1,011)
At 31 December 2010 and 1 January 2011	55,177	1,146,506	926,817	15,315	281,137	18,768	2,443,720
Additions	2,614	1,185	48,955	1,600	6,923	6,227	67,504
Disposals	-	(178,559)	(680,147)	(160)	(287,943)	(1,785)	(1,148,594)
Transfers	-	20,703	142	-	-	(20,845)	-
Foreign currency translation	-	114	324	84	-	-	522
At 31 December 2011	57,791	989,949	296,091	16,839	117	2,365	1,363,152
Accumulated Depreciation							
At 1 January 2010	45,810	595,947	840,118	11,436	252,759	-	1,746,070
Depreciation charge for the year	1,193	29,055	24,152	1,482	7,948	-	63,830
Disposals	-	-	(12,790)	(348)	-	-	(13,138)
Transfers	-	(108)	198	(646)	-	-	(556)
At 31 December 2010 and 1 January 2011	47,003	624,894	851,678	11,924	260,707	-	1,796,206
Depreciation charge for the year	1,647	28,832	22,838	1,653	6,334	-	61,304
Disposals	-	(91,910)	(619,142)	(160)	(267,039)	-	(978,251)
Foreign currency translation	-	57	217	77	-	-	351
At 31 December 2011	48,650	561,873	255,591	13,493	2	-	879,610
Net book value							
At 31 December 2010	8,174	521,612	75,139	3,391	20,430	18,768	647,514
At 31 December 2011	9,141	428,076	40,500	3,345	115	2,365	483,542

The gross amount of fully depreciated property and equipment that was still in use as at 31 December 2011 amounted to Baht 88.0 million (2010: Baht 1,073.9 million).

10. Accounts payable and accrued expenses

	2011	2010
	<i>(in thousand Baht)</i>	
Owing to suppliers	36,132	41,866
Provision for insured saving fund tax	9,365	9,365
Advance from students	33,727	25,368
Withholding tax payable	6,504	8,199
Accrued expenses	10,869	9,700
Payables to staff	22,236	17,028
Advance received from donors	983	782
Others	124,741	25,933
Total	244,557	138,241

11. Employee benefit obligations

	2010
	<i>(in thousand Baht)</i>
At 1 January	-
Provisions made	29,613
At 31 December	29,613
At 31 December	
Current	2,961
Non-current	26,652
Total	29,613

12. 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. The Institute has no title to these funds or the associated revenues and expenses. The fund balances as at 31 December 2011 and 2010 and revenues and expenses for the years then ended were as follows:

	2011	2010
	<i>(in thousand Baht)</i>	
Funds received from donors	214,155	348,417
Application of funds		
Salaries and other benefits	6,032	7,563
Scholarships	308,607	408,108
Contracted services	44,559	56,685
Communication, travel and utility expenses	3,371	4,828
Total funds applied	362,569	477,184

2011 2010
(in thousand Baht)

Balance at 1 January:		
Amounts due to donors	371,300	501,177
Amounts due to donors - AITVN	3,211	2,827
Deficit for the year	(148,414)	(128,767)
Transfers to other funds	(282)	(302)
Foreign currency translation	95	(424)
Balance at 31 December	225,910	374,511
Liabilities	32,388	28,663
Total amounts due to donors	258,298	403,174

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

	2011	2010
	<i>(in thousand Baht)</i>	
Funds received from UNEP RRC.AP	74,785	100,233
Total funds applied	80,023	142,460
Income under expenses for the year	(5,238)	(42,227)
Assets held on behalf of UNEP RRC.AP		
Cash and deposits at financial institutions	153,135	151,813
Accounts receivable	6,378	4,110
Property and equipment	2,900	2,426
Total assets held on behalf of UNEP RRC.AP	162,413	158,349
Amounts due to UNEP RRC.AP		
Balance at 1 January	141,650	183,877
Income under expenses for the year	(5,238)	(42,227)
Balance at 31 December	136,412	141,650
Liabilities	26,001	16,699
Total amounts due to UNEP RRC.AP	162,413	158,349

14. Employee benefit expenses

	2011	2010
	<i>(in thousand Baht)</i>	
Wages and salaries	396,718	391,047
Contribution to provident fund and insured saving fund	15,675	15,293
Merit expenses	-	6,477
Personal income tax of employees	4,873	5,982
Social security costs	4,733	5,018
Other costs	41,685	2,882
Total	463,684	426,699

Provident Fund and Insured Saving Fund

The Institute and its staff jointly operate the Insured Saving Fund, a post-retirement defined contribution scheme. Effectively from 1 February 2004, a Provident Fund has replaced the Insured Saving Fund. The Institute contributes to the fund at the rate of 10% of their basic salary, and the employees contribute to the fund at rates 3% to 10% of their basic salary. Effectively from 1 April 2006, the Institute contributes to the fund at the rate of 5% of their basic salary, and the employees contribute to the fund at rates 3% to 5% of their basic 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. AIT Center in Vietnam (AITVN)

The Institute has a branch operation in Hanoi, Vietnam of which the purpose of its operation is to:

- Educate and train students, technocrats, business managers and other professionals; and
- Organize research outreach and development activities as well as the transfer of technologies as required by the economic development of the country.

The results of the operations which have been included as part of the results of the Unrestricted Fund - General (Fund 21), Program Fund (Fund 30), and Capital Fund (Fund 41) were summarised below:

	2011	2010
	<i>(in thousand Baht)</i>	
Income	110,613	137,134
Expenses	110,817	135,300
Income over (under) expenses	(204)	1,834

Financial statements for the years ended 31 December 2011 and 2010 have been prepared and approved by the management of the branch.

Significant accounting transactions between the Institute and its branch were eliminated from these financial statements.

16. Commitments

Land lease

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 to lease land for 30 years from 19 January 2001 to 18 January 2031 in the amount of Baht 600,000; on expiry of the lease agreement it will give the Institute the right to continue to lease the land. However, the consideration for this discount is that should the lease not be renewed and the land reverts to Thammasat University (University), so all buildings and infrastructure on the Institute's site will become the property of the University.

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. As at 31 December 2011, the scholarship commitment amounted to totaling Baht 77.8 million (2010: Baht 77.8 million).

Service Agreement

On 2 April 2010, the Institute entered into agreements with Sodexo Support (Thailand) Ltd. whereby Sodexo will provide three-key areas of service line, namely 1. Facility Management included preventive and collective maintenance of academic building, residence and field zone; 2. Management of hotel service and food & beverage of AITCC, food and beverage in cafeteria; and 3. Management of the support services of transportation service, campus mail, and sport facilities. Under terms of the agreements, the Institute is committed to pay management fee, variable provision and a share of additional service fee to Sodexo, at the rates as indicated in the agreements. The term of the management agreement is for 5 years, counting from the effective date. The agreements can be extended by writing at least 8 weeks prior to the end of the initial term as specified in the said agreement.

Bank guarantees

As at 31 December 2011, bank guarantees which were issued by the bank on behalf of the Institute in respect of bank overdraft facility and certain performance bonds as required in the normal course of operations of the Institute amounted to totalling Baht 0.7 million (2010: Baht 0.3 million). These bank guarantees are collateralised by AIT's fixed deposits as discussed in note 7.

Others

As at 31 December 2011, the Institute had obtained credit facilities for bank overdraft totaling Baht 5 million which are collateralized by AIT's fixed deposits as discussed in note 7. Bank overdrafts bear interest at the rate of F/D+1.25%.

17. Contingent liabilities

As at 31 December 2011, there were three labour cases and two student cases. Out of the three labour cases one has been ruled out by the Central Labour Court in favour of AIT and it is still in process at the Supreme Court. The Central Labour Court made an appeal to the Supreme Court regarding the two labour cases. The two student cases are still pending at the Provincial court. As at 31 December 2011, the provision has been set up for two labour cases. For other cases, the management believes that the outcome of all these cases will be in favour of the Institute and the ultimate outcome cannot be presently and reliably determined or quantified. Thus, no liability is recorded in the accompanying financial statements as at 31 December 2011.

GLOSSARY

AAO	Alumni Affairs Office	GIC	Geoinformatics Center
ACECOMS	Asian Center for Engineering Computations and Software	GMSARN	Greater Mekong Sub-region Academic and Research Network
ACSIG	Asian Center for Soil Improvement and Geosynthetics	Habitech Center	
AIT	Asian Institute of Technology	IIE	Institute of International Education
AIT Consulting		interERLab	Internet Education and Research Laboratory
AIT Extension		RIMES	Regional Integrated Multi-hazard Early Warning System for Africa and Asia
AIT-UNEP RRC.AP	AIT-United Nations Environment Programme Regional Resource Centre for Asia-Pacific	RNUS	Regional Network Office for Urban Safety
American Chamber of Commerce in Thailand		SATU	Southeast and South Asia and Taiwan Universities (SATU) Presidents' Forum
ARCMDG	ASEAN Regional Center of Excellence on Millennium Development Goals	SEA-UEMA	Southeast Asia Urban Environmental Management Applications Project
ARRPET	Asian Regional Research Programme on Environmental Technology	SERD	School of Environment, Resources and Development
ASAIHL	The Association of Southeast Asian Institutions of Higher Learning	SET	School of Engineering and Technology
AUAP	Association of Universities of Asia and the Pacific	SOM	School of Management
British Chamber of Commerce Thailand		Thai - Swedish Chamber of Commerce	
CLIQ	Center for Learning Innovation and Quality	TRF	Thailand Research Fund
CoEN	Center of Excellence in Nanotechnology	TSF	Télécoms Sans Frontières
CoE SDCC	Centre of Excellence on Sustainable Development in the context of Climate Change	UNEP	United Nations Environment Programme
CSR ACA	CSR Asia Center at AIT	UN-ESCAP	United Nations Economic and Social Commission for Asia and the PacificWHO Collaborating Center
FoAIT	Friends of AIT Foundation	Yunus Center at AIT	



AIT

Asian Institute of Technology

Media and Communications Unit

External Relations and Communications Office
Asian Institute of Technology

Tel: +66 (0) 2-524-5830

Fax: +66 (0) 2-524 5883

Email: mcu@ait.asia

Website: <http://www.ait.asia>

