

PLANNING MISSION PROPOSAL

**INSTITUTIONAL DEVELOPMENT AND CAPACITY BUILDING:
A PROJECT OF
INSTITUTIONAL LINKAGE AND TECHNICAL COOPERATION BETWEEN
SURANAREE UNIVERSITY OF TECHNOLOGY (SUT), THAILAND
AND
CANADIAN UNIVERSITIES TECHNOLOGY CONSORTIUM (CUTC), CANADA**

*Submitted February 10, 1993
by:
Canadian Universities Technology Consortium (CUTC)*

**Contact Person: Ms. Marsha McEachrane-Johnson
Project Coordinator**

Amount Requested: \$20,120

Project Abstract

Suranaree University of Technology (SUT) has been identified by Thailand's Ministry of University Affairs (MUA) as a priority within the program of development for higher education in Thailand and more particularly in the northeast region of the country. The proposed planning mission will bring administrators from SUT to Canada to meet with personnel from the member universities of the Canadian Universities Technology Consortium to finalize proposals for a linkage project of technical cooperation and institutional development, which has been designed through four previous missions funded by the partners.

Through detailed assessment of library automation and management information systems and cooperative education programs in Canada, the mission participants will define appropriate strategies for the inclusion of these elements in the proposed linkage project and subsequent development of institutional capacity at SUT. Plans for the establishment of joint international engineering programs and a joint Ph.D. project will also be finalized.

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For clarity, we have altered the numbering system suggested in the guidelines to begin with 1.0; subsequent section numbers reflect this change.

1.0 ESTABLISHING ELIGIBILITY

1.1 Development Priorities

1.1.1 Purpose of the Mission

The purpose of the proposed planning mission is threefold:

- To carry out the final planning phase for a project of institutional linkage between Suranaree University of Technology (SUT) and the Canadian University Technology Consortium (CUTC) that will be submitted to CIDA in April 1993. Earlier phases included: (a) visits by Canadians to Thailand and Thais to Canada to define the partnership and develop potential relationships; and (b) planning trips by Canadians to Thailand to assess SUT's needs and develop the preliminary project framework. In this phase the joint Canadian-Thai team will discuss and make all the necessary changes to the project's preliminary design necessitated by the release of CIDA's guidelines.
- To undertake a detailed assessment of the strategies adopted by Canadian member universities of CUTC in implementing cooperative education in their academic programs, and to define the appropriate strategy for SUT. The SUT cooperative education strategy is one of the cornerstones upon which the various activities in the proposed institutional linkage project will be based.
- To provide the opportunity for two Thai specialists to intensively study and assess two disciplines of great relevance and urgency to SUT: (a) library automation and information systems; and (b) management information systems. Important decisions concerning the development of SUT's capacity in these two fields, including decisions concerning the procurement of appropriate equipment and supporting software, need to be made before the anticipated beginning of the proposed institutional linkage project.

1.1.2 Description of Proposed Project

The proposed institutional linkage project is a four-year project of technical cooperation, institutional development and institutional capacity-building. The project proposes to strengthen the capacity of SUT through (a) customized training programs in Canada, (b) technical assistance and services in Thailand and (c) joint academic and scholarly initiatives in both countries.

The proposed customized training programs involve study tours, institutional attachments, and customized short-term courses for SUT academic administrators and coordinators, faculty, and support technical staff in areas identified as relevant to the needs of SUT and supportive of its capacity-building requirements. Technical assistance and services will be provided by Canadian professors and consultants in the form of technical assignments, development and delivery of short courses, and other similar activities in Thailand.

A number of innovative joint academic initiatives will be undertaken, including a) the development of an English language centre at SUT; b) the establishment of international undergraduate science and engineering programs involving joint studies in Thailand (first two years) followed by completion of studies and the award of an engineering degree from a Canadian university (remaining two years); c) the development of joint Ph.D. programs in which the research phase of the program is jointly supervised by Canadian and Thai professors in Thailand; d) an exchange of industrial training opportunities for Canadian and Thai undergraduate students; and e) joint industrial development seminars involving selected Canadian and Thai enterprises.

The anticipated starting date is July 1993 and the project budget will be approximately \$5,490,760, of which SUT will contribute \$3,999,490, CUTC will contribute \$492,030, and the proposed CIDA contribution is \$999,240.

1.1.3 Choice of Partners

During a visit by Ryerson International Development Centre (RIDC)'s Associate Director to Thailand in the summer of 1990, SUT was identified by the Ministry of University Affairs (MUA) in Thailand as one of the priorities targeted for development by the Ministry. The permanent undersecretary of MUA suggested at the time that RIDC take the lead in identifying a number of Canadian universities with relevant capacity and experience to become partners in a project of institutional linkages to be funded by the Canada-Thailand Human Resources Development Program. RIDC, based on its preliminary assessment of SUT needs, identified the participating institutions in CUTC because of the following factors: (a) University of Guelph, because of its strength in the field of crop, animal and earth sciences; rural development; food science and engineering, all of which are disciplines of interest to SUT; (b) University of Waterloo, because of the excellence and international reputation of its engineering programs and its experience in cooperative education; (c) Technical University of Nova Scotia (TUNS), because of its strength in resource sciences, and chemical and environmental engineering, and its experience in the development of degree-completion engineering programs; (d) Ryerson, because of its strength in the development of applied professional undergraduate

programs, its recent experience with the engineering accreditation process, and the experience of Ryerson International in consortia development and management.

1.1.4 HRD Priorities

The proposed mission and the institutional linkage project that it supports will result in the development of capacity at SUT in the following areas identified as priorities for the HRD program by CIDA: CAD/CAM; waste management; quality control; precision instrumentation; electronics; information systems technology; design and manufacture for metal machining, tool and die making, machine tools; R & D for high technology; product design; food technology; plastics technology; iron and steel. The proposal will also increase the capability of SUT to produce and upgrade workers in the following fields: mechanical, electrical, electronic, metallurgical, petrochemical, environmental, and agro-industrial engineering; computer science; mathematics; science; languages; teaching personnel and professors for higher education; and scientific and technical researchers.

The **Thai strengths** incorporated into the proposed institutional linkage project include:

- Private-sector participation in higher education. The proposed programs at SUT will incorporate cooperative education strategies involving the active participation of private-sector enterprises in program design and curriculum development.
- Internationalization of academic programs. The proposed programs at SUT include three internationalization initiatives introduced with the support of CUTC: (a) an English language (ESL) centre at SUT; (b) international science and engineering programs; and (c) a joint Thai-Canadian Ph.D. program.
- Springboard to Asia. The proposed project will incorporate the following initiatives that are intended to position SUT as an important participant in Thailand's drive to expand its influence in Asia: (a) the ESL centre will become a centre for English language training for other countries in the region; (b) the international science and engineering programs will be open to students from other countries in the region and (c) selected technical assistance and services activities such as professional seminars and workshops will be open to participants from compatible institutions of higher education in the region. In particular, Ryerson is working to develop a linkage project with Danang Polytechnic in Vietnam on behalf of CUTC.

In terms of **industry/business challenges**, the proposed institutional linkage project will increase SUT's capacity to develop meaningful linkages to the productive sector by:

- Improving the university's ability to respond to the employment needs of employers through the latter's participation in the university's cooperative education programs.
- Incorporating private-sector advisory committees in all SUT academic programs, ensuring more relevant private-sector participation.
- Encouraging education-industry cooperation by incorporating innovative joint initiatives, such as in-service education and training programs, continuing and distance education programs, in SUT's mandate.

1.2 Activities in Support of Institutional Development

The mission will undertake the following tasks leading to the finalization of the institutional linkage project proposal between SUT and CUTC (outlined in the project description in section 1.1.) in which institutional development and human resource development are major priorities:

- (a) All details pertaining to the proposed linkage project will be confirmed and checked against CIDA guidelines.
- (b) The mission will confirm the viability of the four international science and engineering programs at SUT. The logistics of setting up these programs, including enrolment planning, curriculum development and delivery, evaluation, credit transfer mechanism, and residency requirements, will be discussed and finalized during the mission's visit to Canada.
- (c) SUT officials will meet with Canadian personnel from CUTC involved in the management of cooperative education programs to discuss all relevant issues concerning the establishment and effective management of cooperative education programs at SUT. They will also meet with private-sector companies such as Bell Canada, Northern Telecom and IBM to understand, from the private-sector perspective, how Canadian cooperative education programs are managed. This, it is hoped, will enable SUT to be better prepared to work with the Thai Federation of Industries in establishing coop education at SUT.
- (d) Through a short intensive study tour for two Thai specialists in library automation and information systems and management

information systems, the mission will directly contribute to human resource development at SUT in these two fields as well as to the development of new systems and capacity at the university.

1.3 Institutional Commitment

The participating Canadian and Thai institutions have so far invested considerable resources and effort in pursuing the development of the proposed institutional linkage project. This mission, as indicated earlier, is the final mission in a series of missions to define the character of the partnership, the areas of cooperation, and the activities involved. The following is a summary of the previous missions and the Canadian and Thai institutional support provided.

Title and Objective of Mission	Date, Duration and Location	Cost and Financial Responsibilities		
		Cost Item	SUT	CUTC
Reconnaissance mission to Thailand by RIDC's Associate Director	August 1990, one week, Thailand	- travel - accommodation and living expenses for one Canadian -in-kind replacement cost for RIDC		5,500 2,000
Reconnaissance Mission to Canada by four MUA and SUT representatives	April 1991, two weeks, Canada	-travel -accommodation and living expenses -entertainment -in-kind replacement costs for Canadian and Thai personnel	14,000 9,000 10,000	 3,000 7,500
Planning mission to Thailand by four CUTC personnel	October 1992, three weeks, Thailand	-travel -accommodation and living expenses -in-kind replacement costs for Canadian and Thai personnel	16,000 9,000 10,000	 16,000
Second Planning mission to Thailand by four CUTC personnel	December 1992, two weeks, Thailand	-travel -accommodation and living expenses -in-kind replacement costs for Canadian and Thai personnel	16,000 6,000 7,000	 12,000

The commitment of the participating institutions will continue in this proposed planning mission as indicated in more detail in the proposed budget. This commitment includes: (a) the complete costs for travel and living expenses for one of the mission's proposed four participants; (b) in-kind commitment for the replacement cost of all Thai and Canadian participants; (c) entertainment and other incidental costs in Canada.

Supporting documentation showing evidence of SUT and CUTC institutional commitment is shown in Appendix 1 and includes: MOUs from CUTC and SUT and the letter from SUT requesting that they come to Canada to pursue further discussions with CUTC and private-sector companies.

1.4 Mutual Benefits

The **short-term benefits** of the planning mission to both the Thai and Canadian institutions are the development of a viable design for the proposed project of institutional linkage, including the following: (a) confirmation of detailed and workable time plan for all project activities; (b) identification of all the risks and resolution of relevant issues related to the establishment of joint international academic and Ph.D. programs; (c) definition of the organization and structure of the project management, implementation unit, and project review committee; (d) clear definition of all activities and related responsibilities in the project and the development of a mutually acceptable activity-based budget.

In addition to the benefits outlined in section 1.1.4 (HRD Priorities), the **long-term benefits** to the participating Thai and Canadian institutions are the development of sustainable linkages between the institutions involved that would allow the exchange of faculty, the development of mutually acceptable mechanisms for student exchanges, the opportunity for undertaking mutually beneficial joint research and scholarly initiatives, and the opportunity to participate in industry-supported joint technical cooperation programs.

The Thai and Canadian economies will benefit from the joint participation of universities that have close and relevant links to the productive sectors in both countries. It is hoped that various industry-based initiatives incorporated in the project will result in opportunities for sustainable trade and technical cooperation opportunities between selected Canadian enterprises and their Thai counterparts in the agro-industrial, telecommunications, transportation, energy, and food production sectors.

1.5 Non-Proprietary Focus

The benefits of the planning mission and project activities will not be restricted to the organizations involved or to their employees. Thai and Canadian students, and their countries as a whole, will benefit from increased educational opportunities. Short courses will be offered by Canadian and Thai faculty to faculty and academic personnel from other institutions in the region and possibly other countries. Workshops and seminars for the Thai private-sector will be jointly delivered by Thai and Canadian faculty, and will also involve participation by the Canadian private sector. The coop placements will benefit Thai and Canadian

students; students from Thailand and the region will benefit from the ESL centre and international programs jointly offered by SUT and CUTC.

2.0 THE TECHNICAL DESCRIPTION OF THE PLANNING MISSION

2.1 Planning Mission Objectives

- (a) To confirm the viability of the four international science and engineering programs to be jointly designed and delivered at SUT in Thailand and at CUTC institutions in Canada. Meetings involving SUT personnel and deans at the participating Canadian universities will finalize details concerning the logistics of setting up these programs: enrolment planning, curriculum development and delivery, evaluation, credit transfer mechanism, and residency requirements. The support given by each CUTC university to the international academic programs at will be finalized.
- (b) To confirm the disciplines, sequencing, logistics and numbers involved in the proposed joint Ph.D. programs. Members of the mission will meet with the Deans of Graduate Studies in CUTC institutions and work at resolving any remaining issues concerning this initiative.
- (c) To finalize a plan for the incorporation of cooperative education at SUT. SUT personnel will meet with Canadian administrators and faculty who manage and deliver cooperative education programs at the participating CUTC member universities, to discuss all that is required to establish and effectively manage cooperative education programs. SUT personnel will meet with private-sector companies such as Bell Canada, Northern Telecom and IBM to learn about the management of coop education programs from the private-sector perspective.
- (d) To familiarize SUT personnel with library automation and information systems used by Canadian universities and to assess SUT's needs and objectives regarding library systems and automation. To determine the level of support that can be provided by CUTC and incorporate in the design of the project.
- (e) To familiarize SUT personnel with the various management information systems used by Canadian universities so that SUT administrators can make an informed decision about which system to adopt at SUT. Once this is decided, activities will be included in the project proposal to support this area.

2.1.1 Mission Outputs

- (a) Final proposals for a project of technical cooperation in support of institutional development and institutional capacity building between SUT and CUTC incorporating the following aspects as a direct result of the mission activities:
 - A plan for the establishment of joint international science and engineering programs as well as joint Ph.D. programs at SUT.
 - A plan for the establishment of cooperative education programs, including strategies for participation of Thai enterprises and the Thai Federation of Industries.
 - A schedule of activities, and responsibility matrix for SUT and CUTC, and a related activity-based budget for the project.
- (b) A detailed plan for library information services and networks for the library at SUT.
- (c) Proposals and strategies for the implementation of a management information system for SUT.

2.2 Planning Mission Approach

The planning mission has been designed to address outstanding issues, finalize plans, and confirm commitments to the project. Meetings with CUTC academic administrators and faculty will ensure that the Thai mission participants have the opportunity to work directly with those responsible for committing to the activities in the proposed project. A debriefing and planning meeting is scheduled for the latter part of the mission to ensure agreement on activities and confirmation of commitment.

2.2.1 Cross-Cultural Challenges

The proposed mission has been preceded by several preliminary missions by both Canadian personnel to Thailand and counterpart Thai personnel to Canada and has resulted in the development of a committed partnership on the part of the Thai and Canadian participants. Many of the cross-cultural challenges including understanding of each other's social, cultural and political environment and system of higher education in particular have already been accomplished. For these reasons, no major cross-cultural challenges are anticipated.

2.2.2 Collaborative Planning, Decision Making, and Resource Sharing

The SUT personnel will bring their knowledge of (a) the Thai system of higher education; (b) the administrative policies of the Ministry of University Affairs that SUT must adhere to; (c) the standards and requirements of the relevant professional organizations, such as the professional engineers association of Thailand; (d) the economic and development plans for Thailand; (e) SUT's plan to meet Thailand's economic and development needs through the provision of trained professionals; (f) the Thai private-sector, including the industrial and agricultural sectors; and (g) Thai sociocultural norms in higher education.

The Canadian participants will bring: (a) their experience of working with partner institutions in South East Asia; (b) their knowledge of what has worked, both academically and administratively, in establishing similar programs at various Canadian universities; (c) their knowledge of the experience of partner institutions around the world and the lessons learned by them in carrying out similar projects of technical cooperation; (d) their experience working cross-culturally; (e) their knowledge of CIDA, its areas of concern and priority, as well as its project management style and project requirements.

2.2.3 Planning Mission Personnel

Mission participants are: Dr. Sam-ang Srinilta, Dr. Tavee Lertpanyavit, Dr. Indramabarya Ongkan and Dr. Thawatchai Teekachunhatean, all of the Suranaree University of Technology (SUT).

See Appendix B for CVs of Thai mission participants.

See Planning Mission Schedule for Canadian participants.

2.2.4 Planning Mission Schedule

Ryerson International, on behalf of CUTC, is responsible for submission of the mission proposal and the efficient coordination of activities throughout the proposed visit. This will involve liaison with representatives of SUT in Thailand and CUTC in Canada. A detailed mission schedule is provided below and will be further developed to be sure it meets the objectives of the Thai colleagues. Following the mission a report on its activities will be submitted to the THAI CANADIAN HRD PROJECT by March 31, 1993 and the project proposal for the institutional linkage project will be prepared for submission by April 15, 1993.

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Fri. Feb. 26	Thais depart Bangkok for Canada	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		
Sat. Feb. 27	Thais arrive in Toronto at Pearson International	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		
Sun. Feb. 28	Briefing for Planning Mission	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	Stalin Boctor Marsha McEachrane-Johnson	
Mon. Mar. 1	Travel to Guelph Meetings at University of Guelph	Dr. Indramabarya Ongkan	John Black, Chief Librarian Marsha McEachrane-Johnson	• An assessment of the library at University of Guelph (all week). A supplementary program will be submitted with the mission report.
	Travel to Halifax Meetings at TUNS	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Rob Eagle, International Liaison Officer to advise	• A series of meeting with individuals involved in technology transfer, industrial research centres, government technology policy and incubator malls to better understand community and industry joint initiatives at TUNS.

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Tues. Mar. 2	Meetings at University of Guelph	Dr. Indramabarya Ongkan	John Black, Chief Librarian	• An understanding of what is required by SUT and CUTC to support the development of international science and engineering programs at SUT and also the Ph.D. programs. • An assessment of the design and application of information systems in the management of university academic and administrative information. • An understanding of the Canadian experience in the design, delivery and administration of cooperative education from the perspective of a Canadian university. An assessment of the policies and administrative structures developed by TUNS for the integration of coop education into its academic program.
	Meetings at Technical University of Nova Scotia	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Donald A. Ron, President Rob Eagle, International Liaison Officer Bill Caley, Dean, Engineering Stalin Boctor	
		Dr. Sam-ang Srinilta	MIS representative at TUNS	
		Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Paul Amyotte, Head, Chemical Engineering Mike Pegg, Cooperative Engineering Program	
Wed. Mar. 3	Meetings at University of Guelph	Dr. Indramabarya Ongkan	John Black, Chief Librarian	• An assessment of the strategies developed by TUNS to secure the participation of Canadian enterprise in cooperative education programs. • Feedback from Canadian enterprises regarding the benefits gained for their companies in the employment of coop students, as well as some of the negative experiences they may have had.
	Meetings at Technical University of Nova Scotia	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Anne Marie Collen, Director, Cooperative Education/Career Services	
	Meetings with Private Sector	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Rob Eagle to advise	
	Depart Halifax for Toronto	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Stalin Boctor	

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Thur. Mar. 4	Depart for Guelph Meetings at University of Guelph	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean Dr. Sam-ang Srinilta	Marsha McEachrane-Johnson Leonard Connolly, Acting Vice President, Academic Jim Shute, International Liaison Officer Linda Harris, Cooperative Education Faculty Advisor Doug Badger, Finance	• An understanding of what is required by SUT and CUTC to support the development of international science and engineering programs at SUT as well as the proposed Ph.D. programs. • An assessment of the design and application of information systems in the management of university academic and administrative information, especially effective financial management.
Fri. Mar. 5	Meetings at University of Guelph	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	Mark LeMaguer, Chair, Food Science Douglas Goff, Undergraduate Program Coordinator Yukio Kakuda, Graduate Program Coordinator Stalin Bector	• An understanding of what is required by SUT and CUTC to support the development of international science and engineering programs at SUT and the parameters affecting the Ph.D. program.
Sat. Mar. 6	Depart for Waterloo/Toronto The Thais will have a choice of activities for the weekend.	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		
Sun. Mar. 7	Free day	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Mon. Mar. 8	Meetings at University of Waterloo	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	Allen George, Vice President, Academic Pauline O'Neill, International Liaison Officer David Burns, Dean, Engineering Gerry Schneider, Associate Dean, Undergraduate Studies Harry Sullivan, Chair, Mechanical Engineering Stalin Boctor Marsha McEachrane-Johnson	• An understanding of what is required by SUT and CUTC to support the development of international science and engineering programs at SUT and the parameters affecting the Ph.D. prpogram.
Tues. Mar. 9	Meetings at University of Waterloo	Dr. Sam-ang Srinilta Dr. Indramabarya Ongkan Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	J.B. Moore, Management Information Services Murray Sheppard, Librarian John Westlake, Program Administrator, Engineering	• An assessment of the design and application of information systems in the management of university academic and administrative information, especially academic and student records and employee records. • An assessment of the activities which have facilitated the automation of the library at the University of Waterloo. • An understanding of the Canadian experience in the design, delivery and administration of cooperative education from the perspective of a Canadian university. An assessment of the policies and administrative structures developed by University of Waterloo for the integration of coop education into its academic program. • An assessment of the strategies developed by University of Waterloo to secure the participation of Canadian enterprise in cooperative education programs.
	Depart for Toronto	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Wed. Mar. 10	Meetings with Private Sector: IBM, Bell Canada, Northern Telecom	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	John Westlake to advise	• Feedback from Canadian enterprise regarding the benefits gained for their companies in the employment of coop students, as well as some of the negative experiences they may have had. • An assessment of the design and application of information systems in the management of university academic and administrative information, including academic and student records, effective financial management and employee records.
	Meetings at Ryerson	Dr. Sam-ang Srinilta	Morven Wilson, Director, Computing and Communications Services	
Thur. Mar.11	Meetings at Ryerson	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Dennis Mock, Vice President, Academic William White, Dean of Applied Science and Engineering Stalin Boctor, Chair, Electrical Engineering	• An understanding of what is required by SUT and CUTC to support the development of international science and engineering programs at SUT. • An assessment of the library at Ryerson.
		Dr. Indramabarya Ongkan	Richard Malinski, Chief Librarian	
	Farewell Reception at Ryerson	Dr. Sam-ang Srinilta Dr. Tavee Lertpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	All CUTC members	

Date	Activity	Participants		Expected Outcome
		Thai	Canadian	
Fri. Mar. 12	CUTC Meetings at Ryerson: Debriefing	Dr. Sam-ang Srinilta Dr. Tavee Lerpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean	All CUTC members	• Proposals and strategies for the implementation of a management information system for SUT. • A plan for library information services and networks for the library at SUT and confirmation of activities to support the development of the library within the project. • A plan for the integration of cooperative education in academic programs at SUT and how this may be supported by the project. • A plan for the establishment of joint international science and engineering programs as well as joint Ph.D. programs at SUT. • The definition of the organization and structure of the project management implementation unit and project review committee. • A mutually accepted activity-based budget. • Confirmed and detailed time plan for activities in the proposed project of institutional linkage and technical cooperation between SUT and CUTC to be submitted to the PSC of the Human Resources Development Policy and Institutional Linkages Project.
Sat. Mar. 13	Depart for Thailand	Dr. Sam-ang Srinilta Dr. Tavee Lerpanyavit Dr. Indramabarya Ongkan Dr. Thawatchai Teekachunhatean		

CUTC/SUT PLANNING MISSION TO CANADA - BUDGET PROPOSAL

ACTIVITY BASED BUDGET

Activity and Cost Items	Unit	Unit Cost C\$ A	Quantity B	Activity Subtotal C=A x B	Sources of Funding			
					SUT	CUTC	CIDA	Total Sources
1.0 SUT Faculty Coming to Canada								
1.1 Travel to Canada	4 persons							
Bangkok-Toronto-Bangkok	1 person	3,627	1	3,627	3,627	0	0	3,627
Bangkok-Halifax-Bangkok	3 persons	3,826	3	11,478	0	0	11,478	11,478
1.2 Travel within Canada	4 persons	300	4	1,200	300	0	900	1,200
1.3 Accommodation in Canada	4 persons							
Delta Chelsea, Toronto	per night	95	27	2,565	570	0	1,995	2,565
Sheraton Inn, Halifax	per night	65	6	390	0	0	390	390
Holiday Inn, Guelph	per night	86	11	946	430	0	516	946
Holiday Inn, Kitchener-Waterloo	per night	79	12	948	237	0	711	948
1.4 Meals and Incidentals	4 persons	50	56	2,800	700	0	2,100	2,800
1.5 Professional Fees	4 persons	200	68	13,600	13,600	0	0	13,600
1.6 Report Production and Communication		500		500	500	0	0	500
2.0 CUTC Participant to Accompany SUT Mission								
2.1 Airfare in Canada	1 person	600	1	600	0	0	600	600
2.2 Local travel in Canada	1 person	300	1	300	0	0	300	300
2.3 Accommodation	1 person							
Sheraton Inn, Halifax	per night	65	2	130	0	0	130	130
2.4 Meals and Incidentals	1 person	50	2	100	0	100	0	100
2.5 Planning and Coordination	per day	500	20	10,000	0	10,000	0	10,000
2.6 Report Production and Communication Costs		1,500		1,500	0	500	1,000	1,500
2.7 Entertainment of SUT Personnel		4,000		4,000	0	4,000	0	4,000
TOTAL				54,684	19,964	14,600	20,120	54,684

APPENDIX 1



FAX TRANSMISSION

SURANAREE UNIVERSITY OF TECHNOLOGY

Laemthong Building
304 Payathai Road, Rajathevee
Bangkok 10401

Fax: (662) 247-2191
Phone: (662) 215-0733

TO: Mrs.M.M. Johnson

FROM: Dr.Tavee Lertpanyavit

ORGANIZATION: CUTC

DATE: February 10, 1993

FAX #: 416 9795352

TOTAL PAGES: 1

Dear Mrs.Johnson:

To finalize the project proposal on SUT-CUTC linkage for technical cooperation and institutional development, we would like four administrators of our university to visit CUTC and its appropriate member universities in Canada for two weeks or so with library automation, management information systems, international academic programs, and cooperative education as specific areas of study. Thus, we hereby request for the assistance of CUTC in suggesting the itinerary, making the necessary arrangements with agencies /institution / individuals concerned in Canada, and facilitating finding support for this proposed visit.

We shall be glad to execute action at our end and provide additional information as necessary to facilitate your handling of this request. Thus, please feel free to advise us on what you need from us. Kindly update us on the progress of the matter also.

Thank you so much for your kind attention to this request. With best regards.

Sincerely yours,

TAVEE LERTPANYAVIT
Acting Vice President
for Academic Affairs

MEMORANDUM OF UNDERSTANDING

between

**SURANAREE UNIVERSITY OF TECHNOLOGY (SUT)
KORAT, THAILAND**

and

**THE CANADIAN UNIVERSITIES TECHNOLOGY CONSORTIUM
(CUTC)**

RYERSON

MEMORANDUM OF UNDERSTANDING

between

**SURANAREE UNIVERSITY OF TECHNOLOGY (SUT), KORAT, THAILAND
and
THE CANADIAN UNIVERSITIES TECHNOLOGY CONSORTIUM (CUTC)**

1. INTRODUCTION

- 1.1** This Memorandum of Understanding (MOU) between Suranaree University of Technology, Korat, Thailand and the Canadian Universities Technology Consortium describes the conditions, terms of reference, and responsibilities that govern the development, and eventual implementation of a project of technical cooperation and assistance between SUT and CUTC governing the period 1992 to 1997.
- 1.2** Suranaree University of Technology is a new university being established in the city of Korat in Thailand, 250 km Northeast of Bangkok. SUT is part of a development plan that includes, in addition to the university, an industrial park and industrial exhibition facilities to be developed in 2000 acres of land. The building of the infrastructure and university facilities have already started, and is to be completed, by December 1992. The university is expected to start offering its academic programs by June 1993.
- 1.3** The Canadian Universities Technology Consortium consists of the following institutions:
 - The University of Waterloo, Waterloo, Ontario
 - The University of Guelph, Guelph, Ontario
 - Technical University of Nova Scotia, Halifax, Nova Scotia
 - Ryerson Polytechnical Institute, Toronto, Ontario

The consortium was formed to provide cooperation and assistance to support SUT's development plans.

- 1.4** SUT and CUTC agree to work jointly to design and develop a project of technical cooperation to be submitted for funding to the Canadian International Development Agency's (CIDA) new Canada-Thailand Human Resources Development fund.

1.5 The CIDA-Thailand HRD Project has the following objectives:

- a. To strengthen the capacity of Thai Government departments, associations, and institutions in the public and private sectors for the development of policy and delivery of HRD programs; and
- b. Establish long-term relationship between Thai and Canadian institutions, agencies, and individuals.

The proposed cooperation between SUT and CUTC falls under category b. above.

2. OUTLINE OF THE PROPOSED PROJECT

2.1 Project Summary

The following is a brief summary of the project's goals and objectives, outputs, and inputs.

Goals and Objectives: To provide support and technical assistance to SUT to develop and establish its academic programs, increase its institutional capacity, and develop its human resources to meet the university's stated mission.

Expected Outputs: Development of academic programs and curricula in the five designated schools of the university: School of Science, School of Social Technology, School of Industrial Technology, School of Agricultural Technology, and School of Resource Technology; development of academic systems, administrative structures, and facilities to support the university's academic programs; and development of the university's human resources.

- Inputs:**
- a) The Royal Thai Government (RTG) capital investment for the establishment of the university; RTG funds for scholarship programs, and various Thai and Canadian missions supporting the proposed program;
 - b) CIDA HRD program funding for the proposed project.

2.2 Project Activities

The various activities envisaged in the proposed project will be grouped in a number of programs, some funded jointly by SUT and CUTC, and others further funded by CIDA's HRD Program. The various programs are as follows:

Program Title**Program Activities**

- | | |
|---|--|
| 1. Planning and Design | Project Inception Missions for preliminary design of SUT academic programs and academic infrastructure. |
| 2. Academic Cooperation and Support | <ul style="list-style-type: none">• Customized fellowship programs in Canada for Thai academic coordinators and faculty members;• Technical assistance by Canadian professors and consultants in Thailand in all relevant academic areas. |
| 3. Institutional Capacity Building | Fellowships and technical assistance programs, as described above, to support the development of all relevant non-academic infrastructure for capacity building at SUT. |
| 4. Joint Cooperative Programs • and Development of Research Capacity at SUT | <p>Undergraduate and graduate student exchange programs to support the development of SUT's physical, academic, and administrative infrastructure.</p> <ul style="list-style-type: none">• Joint Ph.D programs for Thai students offered by CUTC institutions, in cooperation with SUT, to develop the university's research capacity. |
| 5. Partnership and Joint Community and Industry Initiatives | Using the CUTC-SUT cooperative programs as a conduit for the development of relevant partnership between other Canadian and Thai institutions, organizations, associations, in the following areas: |

- Agriculture and Agribusiness
- Industry and Industrial Development
- Business and Commerce
- Industrial Research and Development
- Non-University Institution of Higher Education

SUT and CUTC will work to develop a detailed proposals for the above mentioned programs for submission to CIDA in 1992. The proposals will follow guidelines worked out during the joint SUT/CUTC planning sessions held in Toronto and summarized in the attached Appendix.

2.3 Proposed Workplan

SUT and CUTC agree to the following work plan in 1991/1992:

- December 1991: Letter of Intent describing the above mentioned initiative and registering the two institutions' interest in the HRD program to be submitted to CIDA and copied to the Ministry of University Affairs.
- March 1992: The first draft of the proposed project prepared by CUTC and submitted for assessment by SUT. SUT to submit modification and changes back to CUTC.
- April 1992: CUTC mission to Thailand to provide consultancy in relevant academic and administrative areas and to finalize project proposals.
- May 1992: Project proposals finalized according to available HRD guidelines and submitted to CIDA for funding.
- September 1992: Potential start of first project activities.

2.4 Project Coordination and Management

SUT and CUTC agree on the following principles governing the project coordination and management:

- Project activities will be decentralized, and managed autonomously by participating CUTC institutions. This autonomy, however, will be informed by detailed common guidelines to ensure consistency and efficiency.
- Overall coordination, management, and administration of project activities will be undertaken by the Ryerson International Development Centre (RIDC), on behalf of SUT and CUTC.

3. FINANCIAL TERMS OF REFERENCE

a) Program 1

This program of planning and design will be started before funding from the CIDA HRD Program. SUT and CUTC agree to jointly finance three Canadian missions of 12 person-month starting in April 1992 using the following guidelines:

SUT: SUT will fund all business-class airline costs to and from Thailand, internal travel in Thailand, accommodation in international-standard hotels, and living expenses.

CUTC: Institutions in the consortium agree to provide the services of their faculty members and experts for short (4-6 weeks) assignments to Thailand at no cost to SUT.

b) Programs 2 - 5

The above mentioned programs will be funded by the CIDA HRD Program using CIDA guidelines and terms of reference.

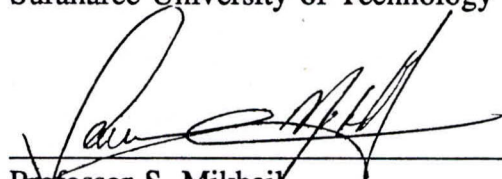
4. SIGNATURES

We, the undersigned, agree to the above mentioned conditions as a basis for a development of proposals of technical cooperation and assistance between our institutions.

DATED on November 26, 1991, in Toronto, Ontario, Canada.



Dr. Wichit Srisa-an
Suranaree University of Technology



Professor S. Mikhail
Ryerson Polytechnical Institute



Dr. G. Schneider
University of Waterloo



Mr. R. Eagle
Technical University of Nova Scotia



Dr. G. A. B. Moore
University of Guelph

APPENDIX: PRELIMINARY PROGRAMS AND ACTIVITIES

PROGRAM AND ACTIVITY	LOCATION	DURATION (Date)	NUMBER OF PERSONS	PERSON MONTHS
<i>Program 1: Planning and Design (Pre-HRD)</i>				
1.1 Thai Mission to Canada	C	2 weeks	5	2.5
1.2 Project Inception Mission - Academic Program Planning - HRD Planning and Design - Cooperative Education - Documentation and Instructional Media Centre	T	1 month (April-May '92)	6	6
1.3 Technical Assistance Missions: - Educational Technology/Office Automation - Curriculum Design - Space and Laboratory Design - MIS - Teacher Support Services - Equipment - Campus Communication System	T	1 month (June-Aug. '92)	12	12
<i>Program 2: Academic Cooperation and Support (Faculty-Based Initiatives)</i>				
2.1 Fellowship for Academic Administrators and Coordinators - Academic Planning and Program Design - Academic Admin Systems - University External Relations - Research & Development - Cooperative Education	C	1-4 months	5	10
2.2 Technical Fellowship for Faculty - Technical Upgrading - Curriculum Development - Laboratory Design and Development - Information Resources - Teacher Support Services	C	6 months	5	30
2.3 Technical Assistance - Laboratory Equipment - Curriculum Development - Academic Administration	T	2 months	8	16
<i>Program 3: Institutional Capacity Building (Staff-Based Initiatives)</i>				
3.1 Fellowships for Institutional Support Services - Librarians and Teacher Support Services - Management and Information Systems - Student Records and Alumni Office - Physical Resources and Equipment Maintenance - Education Technology and Teacher Support Services	C	2-4 months	5	15
3.2 Technical Assistance in Institutional Support Services - Library Systems - Student Records and Alumni Office - Physical Resources and Equipment Maintenance - Education Technology and Teacher Support Services	T	2 months	5	10

PROGRAM AND ACTIVITY	LOCATION	DURATION (Date)	NUMBER OF PERSONS	PERSON MONTHS
<i>Program 4: Joint Cooperative Programs and the Development of Research Capacity</i>				
4.1 Joint Ph.D Program				
4.1.1 Evaluation and Assessment	T	2 months	5	10
4.1.2 Ph.D. Course Work and Comprehensive Examination	C	12 months	15	180
4.1.3 Research Work and Technical Assistance	T	24 months	15	360
4.1.4 Presentation of Results and Thesis Defence	C	4 months	15	60
4.2 Joint Research Initiatives				
- Rural Extension Services	C			
- Agricultural Cooperatives	T			
- Others				
4.3 Joint Undergraduate Programs				
- Canadians in Thailand	T	4 months	15	60
- Thais in Canada	C	4 months	15	60
4.4 Post Doctoral Internships	T	4 months	5	20
<i>Program 5: Community and Industrial Joint Initiatives</i>				
5.1 Partnership with Industry and Agriculture:				
5.2 Research and Technology Parks				
5.3 Other Institutions of Higher Education				

APPENDIX 2

Curriculum Vitae

- 1 Name : Sam-ang Srinilla Citizenship : Thai Sex : Male
- 2 Educational Attainment
 - 2.1 Bachelor of Science in Agriculture cum laude ; University of Philippines, Philippines ; April 1959.
 - 2.2 Master of Science in Soil Science (Soil Physics) ; University of California at Berkeley, U.S.A. ; January 1964.
 - 2.3 Doctor of Philosophy in Soil Physics ; Iowa State University ; U.S.A. ; August 1967.
- 3 Language Proficiency :

<u>Language</u>	<u>Degree of Proficiency</u>		
	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
Thai	Good	Good	Good
English	Good	Good	Good
Tagalog	Fair	Fair	Poor
- 4 Length of Service and Employment Status with present Institution :
one week ; permanent
- 5 Present Employer and Position in the Institution : Suranaree University of Technology ; Associate Professor and Acting Vice President for Planning and Development.
- 6 Pertinent Experience :
 - 6.1 Faculty member, Department of Soil Science, Faculty of Agriculture, Kasetsart University ; 1959-1988.
 - 6.2 Post-doctoral Research Fellow, National Research Council of Canada ; 30 November 1970-20 October 1971.
 - 6.3 Visiting Assistant Professor of Soil Science, University of the Philippines ; 1 November 1973 - 29 September 1976.
 - 6.4 Coordinator, Japanese Grant Aid for Kasetsart University Development Project ; 1977-1982.
 - 6.5 Vice President (in charge of Kamphaengsaen Campus), Kasetsart University ; 1981-1982.
 - 6.6 Vice President (in charge of Planning and Development), Kasetsart University ; 1982-1985.

- 6.7 Deputy Director, Southeast Asian Ministers of Education Organization Regional Center for Graduate Study and Research in Agriculture (SEARCA) ; 2 November 1995 - 31 October 1992.
- 6.8 Executive Secretary, Asian Association of Agricultural Colleges and Universities (AAACU) ; September 1986-to date.
- 6.9 Visiting Associate Professor of Soil Science, University of the Philippines ; 15 September 1986 - 31 May 1989.
- 6.10 Visiting Professor of Soil Science, University of the Philippines ; 1 June 1989 - 31 May 1993.

7 History of Employment and Assignments :

- 7.1 Associate Professor of Soil Science, School of Agricultural Technology, Suranaree University of Technology ; 1 February 1993-to date.
- 7.2 Acting Vice President for Planning and Development, Suranaree University of Technology ; 1 February 1993-to date.
- 7.3 Deputy Director, Southeast Asian Ministers of Education Organization Regional Center for Graduate Study and Research in Agriculture ; 2 November 1985 - 31 October 1992.
- 7.4 Vice President (in charge of Planning and Development), Kasetsart University ; 1982-1985.
- 7.5 Vice President (in charge of Kamphaengsaen campus), Kasetsart University ; 1981-1982.
- 7.6 Chairman, Department of Soil Science, Faculty of Agriculture, Kasetsart University ; February 1978 - April 1981.
- 7.7 University Registrar (Chief, Educational Services Division, Office of the President) ; Kasetsart University ; 1977-1980.
- 7.8 Coordinator, Japanese Grant Aid for Kasetsart University Development Project ; 1977-1982.
- 7.9 Associate Professor of Soil Science, Kasetsart University ; 1 September 1981 - 31 October 1988.
- 7.10 Lecturer in Soil Science, Kasetsart University ; 29 October 1968 - 31 August 1981.
- 7.11 Junior Lecturer in Soil Science, Kasetsart University ; 29 April 1961 - 28 October 1968.
- 7.12 Assistant Lecturer in Soil Science, Kasetsart University ; 29 April 1960 - 28 April 1961.
- 7.13 Instructor in Soil Science ; Kasetsart University ; May 1959 - 28 April 1961.

8 Service in and Knowledge of Asian countries :

- 8.1 As SEARCA Deputy Director (2 November 1985 - 31 October 1992), the duty station was on the campus of the University of the Philippines Los Banos in Los Banos, Laguna, Philippines and the primary responsibility was to manage the Agricultural manpower Development Assistance Program with member countries of SEAMEO, i.e., Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand and Vietnam. The nature of the tasks required at least one visit per year to each of the countries other than the Philippines, except Cambodia, Laos, and Vietnam, which were inactive in the Program during the tour of duty.
- 8.2 As Executive Secretary of AAACU (September 1986-to date), the primary responsibility is to organize and undertake activities on issues pertaining to agriculture and agricultural higher education that are of common interest or concern among the AAACU member institutions. One regular activity is the biennial conversations, which takes place every two years with all member and affiliate member institutions having the privilege to attend and for which member institutions take turn in playing host. The latest biennial conversation was hosted by Kasetsart University in Bangkok, Thailand on 24-27 November 1992. At present, AAACU has 49 members and 4 affiliate members from 16 countries in Asia.

Curriculum Vitae

Name : INDRAMABARYA Ongkan

Nationality : Thai

Education : Ed.D. University of Northern Colorado, USA.

Language Proficiency : English & Thai; good

Present Position : Acting Vice-President for Administration

: Acting Director of Media and Educational Technology Center,
Suranaree University of Technology (SUT)

Length of service with SUT : 4 years as permanent officer.

Pertinent Experience : Educational Technology instructo, University of
Northern Colorado

: Director of Registration and Evaluation Division,
Sukhothai Thammathirat Open University

: Head of the Computer Center, Sukhothai Thammathirat
Open University

: Member of the working group for the establishment
of MIS, Sukhothai Thammathirat Open University

: Member of the study group on Electronic Library

Supportive Experience:

1976-1980 : Principal of Kasersart University
Experimental School

1981-1983 : Director, Education Service Center,
Sukhothai Thammathirat Open University

1987-1988 : Vice President for Planning, Sukhothai
Thammathirat Open University

CURRICULUM VITAE

NAME : Dr. THAWATCHAI TEEKACHUNHATEAN

DATE OF BIRTH : DEC 10, 1955

LANGUAGES: Thai, English; good

EDUCATION :

YEAR	INSTITUTE	DEGREE	FIELD
1985	Mississippi State Univ.	Ph.D.	Seed Technology
1982	Mississippi State Univ.	M.S.	Seed Technology
1978	Khon Kaen Univ.	B.Sc.(Hons)	Plant Science

FIELD OF SPECIALIZATION :

- Seed testing
- Seed dormancy
- Vegetable seed production
- Soybean seed production

EMPLOYMENT RECORD :

1993 - Present Instructor (permanent), Suranaree University of Technology,

Dept. of Agriculture Technology (Crop production)

1989 - 1992

Quality Assurance manager, Bangkok Industry CO., LTD.

C.P. GROUP. Pattananikom District, Lopburi.

- Quality assurance management

- Seed testing

- Field inspection

- Soybean Breeding and seed multiplication supervisor.

- Farm manager, Zhen Hai Co. Ltd., Shiitake mushroom farm

1987-1989 Quality control section chief, Chiang Mai Seed Center, Seed Division,
Dept. of Agric. Ext.

- Seed testing and laboratory organization
- Seed testing equipment development
- Training course coordinator and organizer
- Training lecturer
- Conducting experiments mainly in soybean and peanut seed quality
- Vegetable seed multiplication supervisor
- Seed center public relation and exhibition

1985-1986 Subject Matter Specialist, Seed Div., Dept. of Agric. Ext., Bangkok.

- Training coordinator and organizer
- Training lecturer

1978-1980 Research assistant, Semi-Arid Crops Projects. Fac. of Agric.

Khon Kaen Univ., Khon Kaen.

- Yield trials of peanut, soybean and mungbean
- Field crop Sub-section manager

1978 Student trainee, Pasture Improvement Project, Fac. of Agric.

Khon Kaen Univ., Khon Kaen.

TEACHING EXPERIANCE :

1991 - Date - Guest Lecturer, Seed Technology, Fac of Agriculture,
Ubon Rajabhat Univ.

1987 - Date - Guest lecturer, Seed Conditioning, Fac. of Horticulture,
Chiang Mai Univ.

1986 - Guest lecture, Seed Physiology, Fac. of Agriculture,
Kasetsart Univ.

1985 - Date - Guest lecture, Morphology and Physiology of Seed Fac. of
Science, Kasetsart Univ.

1980 - Teaching assistant, peanut production, Oil Crop Course
 Fac. of Agriculture Khon Kaen Univ.

TRAININGS :

1. Defensive Driving. 5 - 6 October 1990. C.P.Group.
2. Effective presentation technique. 21 - 24 June 1990. C.P.Group.
3. Standard course for administration. March - May 1990. C.P. Group.
4. Electrophoresis techniques for plant identification. 18-22
July 1988. The Central Laboratories and Green House Complex.
Kampaengsan Campus, Kasetsat Univ.
5. Hybrid rice seed production course. 1-22 Sept. 1987. IRR1.
The Philippines.
6. Introduction to plant tissue culture. 23-27 Sept. 1985.
Central Lab, Kasetsat Univ.

OUTSTANDING RESEARCH :

Dept. of Agriculture, The first honour outstanding research in 1990,
Research Title : Peanut Variety KHON-KAEN 60-3.

PUBLICATION :

1. Teekachunhatean, T., Choosri Boonyom and Serm Chintong. 1988.
Study on seed quality of green seed in soybean. P. 57-66. In :
Proceedings of the 1988 Quality Control Annual Seminar. Seed
Division, Dept. of Agri. Ext. (Thai publication)
2. Teekachunhatean, T., Choosri Boonyom and Serm Chintong. 1988.
Effect of soaking treatment on rice seedling applied for
overcoming seed dormancy. P. 67-68. In : Proceedings of the 1988
Quality Control Annual Seminar. Seed Division, Dept. of Agric. Ext.
(Thai publication)

3. Teekachunhatean, T., Choosri Boonyom and Sern Chintong. 1988. Ethephone application for overcoming groundnut seed dormancy in sand germination test. P. 462-466. In : Proceedings of the seventh Thailand National Groundnut Meeting. Published by the Faculty of Agric., Khon Kaen Univ. (Thai publication with English abstract) .
4. Teekachunhatean, T., 1987. Ethephone application for overcoming seed dormancy in virginia-type groundnuts. P. 589-596. In : Proceedings of the Sixth Thailand National Groundnut Meeting. The Fac. of Natural Resources, Prince of Songkla Univ. (Thai publication with English abstract)
5. Teekachunhatean, T. 1985. Release, induction and significance of dormancy in seeds of red rice (Oryza sativa L.). Ph.D. Dissertation. Mississippi State Univ., Miss. State, MS.
6. Teekachunhatean, T. and J. C. Delouche. 1984. Release of dormancy in red rice seed under field conditions in Mississippi. Proc. Tech. Working Group. 20:43.
7. Teekachunhatean, T. 1982. Development and release of seed dormancy in peanuts (Arachis hypogaea L.). M.S. Thesis, Mississippi State Univ., Miss. State. MS.
8. Laosuan, P., P. Sornkulpakdee, and T. Teekachunhatean. 1977. Effect of population densities on yield and other characteristics of soybean. II. Effects of between row spacing on yield and other agronomic characteristics. p:76-77. In: Semi-Arid Crops Project. 1977 Annual Report, Faculty of Agriculture, Khon Kaen Univ.
9. Teekachunhatean, T. 1989. Peanut. Semi Arid Crop Project. Dept. of Plant Sci. Khon Kaen Univ.

SPECIAL ASSIGNMENT

1. 1991. Public Relation Committee, Seed Association of Thailand.

CURRICULUM VITAE

Name: LERTPANYAVIT Tavee

Nationality: Thai

Education:

- B. Eng. (Hons.) in Mechanical Engineering, Chulalongkorn University, Bangkok, 1961
- Dr. Eng. University of Rome, Rome, 1967

Languages:

English	Proficiency: Good
Italian	Proficiency: Fair

Present Position:

- Acting Vice President for Academic Affairs, Suranaree University of Technology (SUT) (1991-Present)
- Acting Dean, Faculty of Industrial Technology, SUT (1992-Present)

ADMINISTRATIVE EXPERIENCES:

Appointment at Chulalongkorn University

Dean, Faculty of Engineering, (1983-1991)

Member, University Council, (1989-1991)

Head, Department of Mechanical Engineering (1979-1983)

Assistant Dean, Faculty of Engineering, (1976-1979)

Secretary, Office of the Vice President for Academic Affairs, (1974-1975)

Secretary, Office of the Vice President for Administration, (1973-1974)

Other Appointment

Member, Council of Private Institutions of Higher Education, Ministry of University Affairs, (1992-Present)

Member, Executive Board, The National Computer Software Training Center, Ministry of University Affairs, (1991-Present)

Member, Council of Mahanakorn College, Bangkok (1990-Present)

Member, National Committee for International Standard, Ministry of Industry, (1988-1990)

Secretary to the Minister, Ministry of Science, Technology and Energy, (1980)

PROFESSIONAL AFFILIATIONS:

Fellow, the Engineering Institute of Thailand under H.M. the King's patronage (E.I.T.)

Registered Professional Engineer, Board of Professional Engineers, Ministry of Interior

Member, American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), USA

Associate Member, International Institute of Refrigeration (IIR), Paris

Secretary General, the Engineering Institute of Thailand under H.M. the King's Patronage (1992-1993)

Member, the Board of Professional Engineers, Ministry of Interior, (1986-1989)

Treasurer, the Board of Executive Committee, E.I.T. (1982-1983, 1986-1989)

Chairman, Mechanical Engineering Chapter, E.I.T. (1974-1977, 1980-1981)

KNOWLEDGE OF NORTH AMERICAN/ASIAN:

- Participant to the Pacific Summit Technology Symposium at Seattle, Organized by the Washington Centennial Commission, August 1989.
- Attended the XVIII International Congress of Refrigeration in Montreal, August 1991
- Head Delegate, representing the Engineering Institute of Thailand under H.M. the King's Patronage to the 10th Conference of Asian Federation of Engineering Organizations in Manila, the Philippines, November 1992.