



Canadian
Universities
Technology
Consortium

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**

PLANNING MISSION REPORT

February 26 - March 13, 1993

Submitted April 6, 1993

by:

Canadian Universities Technology Consortium (CUTC)

Contact Person:

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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 planning mission provided the opportunity for administrators from SUT to travel 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 defined 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 were also finalized.

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1. Purpose of the Mission

The purpose of the planning mission was 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 would 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.

2. Achievement of Mission's Goals

All of the anticipated outputs were achieved during the two weeks of the mission. The mission achieved the following overall goals:

- **Institutional Linkage Project Design**

Towards carrying out the final planning phase for the project of institutional linkage between SUT and CUTC, the following was achieved:

- the overall project design was finalized and agreed upon;
- the proposed project budget was approved by the SUT mission members and the CUTC participants;
- through visits to the four CUTC campuses and discussions with academic administrators (the Vice President, Academic, and the Deans of Science and Engineering) at each institution, the proposed undergraduate international science and engineering programs and the joint international PhD programs were confirmed. Further, the level of support, and roles and responsibilities of each university within these proposed programs were defined and affirmed.

- **Cooperative Education**

SUT administrators undertook a detailed assessment of the strategies adopted by Canadian member universities of CUTC in implementing cooperative education in their academic programs. Through meetings with cooperative education administrators at the various CUTC institutions, the Thai delegation was able to gain an enhanced understanding of the needs and capabilities of SUT in the area of cooperative education. This needs assessment proved beneficial in defining SUT's requirements, the appropriate SUT co-op education strategy and the required intervention by the linkage project.

Following successful meetings with representatives from multinational private sector firms, CUTC and SUT will continue to negotiate with the private sector to secure participation in the cooperative education programs proposed in the project.

- **Library Automation and Management Information Systems**

The mission provided two SUT specialists the opportunity 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. During the course of the mission, a strategy was incorporated into the project proposal for support by CUTC to SUT regarding both library automation and management information systems.

- **Project Management**

With the Project Implementation Units on both the Canadian and Thai sides in place, the mission allowed the key individuals involved in the project design, development and delivery, the opportunity to meet and discuss plans and objectives.

3. Outputs of the Planning Mission

Details of the planning mission's objectives, activities and outputs are shown in Table 1.

Table 1: Details of the Outputs of the Planning Mission

Planning Mission Objectives	Mission Activities	Mission Outputs
To confirm the viability and logistical details of the four international science and engineering programs to be jointly designed and delivered at SUT and the participating CUTC institutions, as well as support given by each CUTC university to the international academic programs.	The SUT team met with the various Deans of Engineering at the CUTC member universities and discussed the details of customized training and technical service needed to support the design and delivery of the programs.	The plan for the establishment of the joint Ph.D programs, as well as the international undergraduate applied science and engineering programs, has been agreed upon and is supported by the activities outlined in the project proposal.
To confirm the disciplines, sequencing, logistics and student numbers involved in the proposed joint Ph.D. programs.	Meetings were held between the SUT team and the Deans of Graduate Studies at the three CUTC institutions which offer graduate programs. Meetings were also held with the Vice Presidents, Academic, to confirm the nature of the institutional commitment of each of the CUTC members in support of the joint Ph.D programs.	It has been agreed that within the life of the project TUNS and the University of Guelph will accept 3 PhD candidates each, and the University of Waterloo will accept 4. Therefore a total of ten candidates will be trained under the project.
To finalize a plan for the incorporation of cooperative education at SUT.	The SUT team met with the cooperative education coordinators at three CUTC universities which offer cooperative education programs, and looked at three different models, with the view of designing the most appropriate structure for SUT.	It was agreed during the mission that one Co-operative Program Coordinator will receive a 6-week customized fellowship training program in Canada. Further, strategies were developed to facilitate the participation of the Thai Federation of Industries and Enterprises in the design of SUT's co-op program.

Planning Mission Objectives	Mission Activities	Mission Outputs
(cont'd).	Meetings were held with representatives of Northern Telecom and IBM to discuss issues surrounding the benefits derived by the private sector in the support of cooperative education programs. The mission also discussed the possibility of placing Thai students for sixteen week periods in these and other private sector companies. Also discussed with the companies was their involvement in the provision of industrial training seminars in Thailand to be jointly designed and delivered by CUTC/SUT and the companies. Funds to support the development of the framework of such activities have been identified within the project proposal to CIDA and will be shared by CIDA and the two partner institutions.	Preliminary expressions of interest were made by Northern Telecom and IBM to support the provision of work placement for Thai and Canadian students. Further negotiations are still required to obtain final firm commitment from them and other Canadian private sector enterprises.
To familiarize SUT personnel with library automation and information systems used by Canadian universities and to assess SUT's needs and objectives in these areas.	The SUT team met with Chief Librarians and library staff from each of the CUTC institutions. They discussed library automation systems and examined equipment and computer software being used in Canadian universities. They were able to discuss SUT's own capacity and needs in the area of library automation, and prepared preliminary plans for CUTC's contribution in this field.	Preliminary plans for the library information services and networks for the SUT library have been developed.
To familiarize SUT personnel with various management information systems used by Canadian universities.	The SUT mission members met with individuals responsible for Management Information Systems at each of the four CUTC institutions. Through tours of the universities' own systems and discussions regarding SUT's needs, they were able to assess a plan of action for the development of SUT's management information system.	Preliminary plans and strategies for the implementation of a management information system for SUT have been developed.

4. Mission Personnel

The mission personnel consisted of the following Suranaree University of Technology academic administrators and faculty members:

Dr. Sam-arng Srinilta, Acting Vice-President for Planning and Development;
Dr. Tavee Lertpanyavit, Acting Vice-President for Academic Affairs;
Dr. Ongkan Indrambarya, Acting Vice-President for Administration and
Acting Director of Media and Educational Technology Centre; and
Dr. Thawatchai Teekachunhatean, Faculty, Department of Agriculture
Technology.

During the mission, Dr. Sam-arng concentrated on intensive study and assessment of management information systems in Canadian universities. Important decisions concerning the development of SUT's own capacity in MIS, including procurement of equipment and software, will be addressed in the Project Proposal.

Dr. Tavee met with CUTC member institutions' Deans of Engineering and Vice Presidents, Academic. During the mission, he studied the international science and engineering and joint international PhD programs in the proposed institutional linkage project and confirmed each Canadian institution's commitment to, and roles and responsibilities within these programs.

Dr. Ongkan studied library automation and information systems in Canadian universities, including the member institutions of CUTC. He examined the equipment and computer software utilized at these institutions and discussed SUT's needs and capacities in the field of library automation.

Dr. Thawatchai undertook a detailed assessment of the strategies adopted by Canadian member universities of CUTC in implementing cooperative education in their academic programs, in an effort to address and define the appropriate strategy for SUT. The cooperative education strategy is one of the cornerstones upon which the various activities in the proposed institutional linkage project will be based.

5. Financial Report Based on Approved Budget

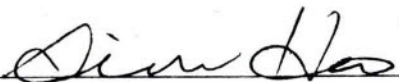
The following Expense Statement reflects the reconciled expenses for the Planning Mission based on the budget approved by the CEA. As required, all supporting original documents will be kept available for audit purposes. It is understood that the over expenditure on the expenses is to be absorbed by CUTC.

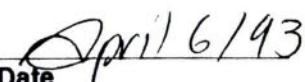
CUTC/SUT PLANNING MISSION TO CANADA

ACTIVITY BASED EXPENSE SUMMARY

Activity and Cost Items	Budget				Expenses			
	SUT	CUTC	CIDA	Total Budget	SUT	CUTC	CIDA	Total Expenses
1.0 SUT Faculty Travel to and In Canada								
1.1 Travel to Canada								
Bangkok-Toronto-Bangkok	3,627	0	0	3,627	3,627	0	0	3,627
Bangkok-Halifax-Bangkok	0	0	11,478	11,478	0	0	10,807	10,807
1.2 Travel within Canada	300	0	900	1,200	300	0	1,059	1,359
1.3 Accommodation in Canada								
Delta Chelsea, Toronto	570	0	1,995	2,565	570	0	2,993	3,563
Sheraton Inn, Halifax	0	0	390	390	0	0	466	466
Holiday Inn, Guelph	430	0	516	946	430	0	282	712
Holiday Inn, Kitchener-Waterloo	237	0	711	948	237	0	251	488
1.4 Meals and Incidentals	700	0	2,100	2,800	700	0	1,691	2,391
1.5 Professional Fees	13,600	0	0	13,600	13,600	0	0	13,600
1.6 Report Production and Communication	500	0	0	500	500	0	0	500
2.0 CUTC Participant to Accompany SUT Mission								
2.1 Airfare in Canada	0	0	600	600	0	0	866	866
2.2 Local Travel in Canada	0	0	300	300	0	0	786	786
2.3 Accommodation								
Sheraton Inn, Halifax	0	0	130	130	0	0	78	78
2.4 Meals and Incidentals	0	100	0	100	0	100	0	100
2.5 Planning and Coordination	0	10,000	0	10,000	0	10,000	0	10,000
2.6 Report Production and Communication	0	500	1,000	1,500	0	500	1,000	1,500
2.7 Entertainment of SUT Personnel	0	4,000	0	4,000	0	4,000	0	4,000
Total	19,964	14,600	20,120	54,684	19,964	14,600	20,279	54,843

* Note - Backup documents available for all expenses of \$20,279 under CIDA funding.


Almee Horll, CMA
Intermediate Project Accountant


Date April 6/93

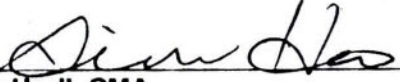
APPENDIX A
Approved Budget

CUTC/SUT PLANNING MISSION TO CANADA

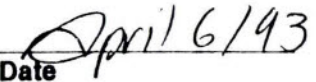
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1.5 Professional Fees	13,600	0	0	13,600	13,600	0	0	13,600
1.6 Report Production and Communication	500	0	0	500	500	0	0	500
2.0 CUTC Participant to Accompany SUT Mission								
2.1 Airfare in Canada	0	0	600	600	0	0	866	866
2.2 Local Travel in Canada	0	0	300	300	0	0	786	786
2.3 Accommodation								
Sheraton Inn, Halifax	0	0	130	130	0	0	78	78
2.4 Meals and Incidentals	0	100	0	100	0	100	0	100
2.5 Planning and Coordination	0	10,000	0	10,000	0	10,000	0	10,000
2.6 Report Production and Communication	0	500	1,000	1,500	0	500	1,000	1,500
2.7 Entertainment of SUT Personnel	0	4,000	0	4,000	0	4,000	0	4,000
Total	19,964	14,600	20,120	54,684	19,964	14,600	20,279	54,843

* Note - Backup documents available for all expenses of \$20,279 under CIDA funding.


Almee Horil, CMA

Intermediate Project Accountant


Date

APPENDIX B
Details of Mission Schedule, Participants, Discussions and Outcomes

**Outcomes of Meetings of Planning Mission for
Human Resources Development Policy and Institutional Linkages Project,
between
Suranaree University of Technology (SUT), Thailand
and
Canadian Universities Technology Consortium (CUTC), Canada**

Friday, February 26 to Saturday, March 13, 1993

Date	Meeting Participants		Discussions
	Thai	Canadian	
Technical University of Nova Scotia (TUNS), Halifax, Nova Scotia			
Monday March 1	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean Thai Delegation Thai Delegation Thai Delegation	Mike Pegg, Chemical Engineering Robert Eagle, Director, Research Services William Caley, Dean of Engineering Ann Marie Coolen, Director Cooperative Education Ann Marie Coolen Donald Roy, President William Caley Robert Eagle	•Review of itinerary •Determine objectives of mission •Discussions on job development, work term evaluation •President welcomed delegation and confirmed commitment of TUNS to the project •Discussions of project proposal •Discussions on co-op implementation and sequencing •Discussions on how TUNS was able to secure the participation of Canadian enterprise in co-op education program •Initial discussion on proposed international PhD program

Tuesday March 2	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean Dr. Ongkan Indrambarya Thai Delegation Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean Dr. Ongkan Indrambarya	Gordon Owen, Technology Transfer, Dalhousie University Tom Nickerson, President, NSRFC Andy Woyedwoda, Industrial Technology Advisor, CIFT Doug Pincock, President, AMI Leigh Beauchamp, CAD/CAM Robert Eagle Riaz Hussain, Librarian William Caley Linda Burke various co-op students Riaz Hussain	•Presentations made on how technology developed at a university could be used to aid the development of industry. The presenters represented a university technology transfer office, a provincial research organization and three university research centres. •Discussion on how enterprises benefit from employment of co-op students, as well as some drawbacks. •Discussed TUNS library operation with particular emphasis on the inter-university linkage system NOVANET. •Classification of Thai needs with regard to faculty for co-op implementation and extra faculty time necessitated by co-op. •The delegation viewed and used the software used by TUNS to administer its co-op program. Discussions of SUT's needs to design, deliver and administer co-op programs in Thailand. •A tour of the Dalhousie University library was undertaken and discussions revolved around the library systems and needs of SUT.
Wednesday March 3	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean Dr. Sam-arng Srinilta Dr. Ongkan Indrambarya Dr. Tavee Lertpanyavit Thai Delegation	H. Hancock, Head of the Co-op Committee William Caley Dexter Kaulbauch, Vice President Rick Lowery, Treasurer William Caley Stalin Boctor, Technical Adviser, CUTC Paul Amyotte, Head, Chemical Engineering Mike Pegg William Caley Stalin Boctor	•Discussions on role and effectiveness of co-op committee of faculty. •Meeting to discuss TUNS financial and administrative procedures and MIS systems, as well as to view software packages related to same. •Review of joint PhD and undergraduate proposals. Discussions on what will be required by both SUT and TUNS in support of the development of international science and engineering programs at SUT as well as the proposed PhD programs. •TUNS Chemical Engineering to provide by March 11 a proposed curriculum for Thailand (4 terms) and TUNS (either 4 or 5 terms) with a proposal to cover the 8 month work term.

Wednesday March 3 (cont'd).	Thai Delegation	William Caley Stalin Boctor Robert Eagle	•Discussions on fee structure for students in Canada, and for Thais to identify relevant research areas for the joint PhD program. •Discussions on Chemical Engineering Program concerning a generic Year 1 compatible with Waterloo (Mechanical) and Ryerson (Electrical). Also, course sequencing for a 4 term 2-year program in Thailand, and a 4 or 5 term plus 8 month work term proposal for SUT/TUNS International Chemical and Environmental Engineering.
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Outcomes of TUNS Meetings:

- Decision to confirm fee structure for students in Canada, and for Thais to identify relevant program areas for the joint PhD program.
- Preliminary plans to provide an international Chemical and Environmental Engineering Program with a generic Year 1 compatible with Waterloo (Mechanical) and Ryerson (Electrical). Also, course sequencing for a 4 term, 2-year program in Thailand, and a 4 or 5 term plus 8 month work term proposal for SUT/TUNS Chemical and Environmental Engineering.

University of Guelph, Guelph, Ontario

Thursday March 4 and Friday March 5	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean Dr. Sam-arng Srinilta Dr. Thawatchai Teekachunhatean	Tammy Bray, Assoc.VP Academic Jim Shute, Director, Centre for International Programs Kath Beaven, Assistant Director, Centre for International Programs Doug Badger, Finance Ed Gamble, Crop Sciences Lloyd Ross, Acting Director of Co-op Programs Peter Chisolm, Faculty Advisor for Engineering Co-op Programs	•Outlined commitment of University of Guelph to participate in CUTC consortium and to the SUT project. •Discussed overall organizational structure of computing on Guelph's campus, and strategic direction towards UNIX and Open Systems. •Reviewed conceptual model of remote/field department access to central systems, including both front-end data collection and back-end financial information retrieval. •Provided demonstration of MIS. •Discussed "make versus buy" approaches, consultants potential role at SUT and process of preparing Request for Proposals. •Discussed the Crop Science/Agronomy Major Co-op program: application and acceptance of students into program; types of work experience; salaries paid; work reports; etc. •Met with Thai students, including Lynn Mitchell, a former co-op student in Crop Science, to discuss students' experience with co-op program. •Discussed Engineering co-op programs at University of Guelph and discussions on proposed international science and engineering programs at SUT and the parameters affecting the PhD program. •Brief discussion of Crop Science Department's research programs, and a short tour of laboratories and indoor growth facilities.
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Thursday March 4 and Friday March 5 (cont'd).	Dr. Tavee Lertpanyavit	Marc LeMaguer, Food Science Dr. Kakuda, Graduate Coordinator Linda Harris, Food Science Co-op Coordinator	•Tour of the Department and its facilities. Particularly stressed were the physical facilities related to pilot plant activities and the importance of hygiene and sanitation in the design. •Discussion of the joint PhD program. •Discussion of specific activities related to counselling, career guiding and report grading of students. Issues related to number of students, placement in industry for potential Thai students. •Discussions of how Co-op program was established: selection of industries, on-site visits, etc. •International science program discussed. Discussion of core two-year curriculum.
Thursday March 4 to Tuesday March 9	Dr. Ongkan Indrambarya	John Black, Chief Librarian	•Discussions over four days of a wide range of issues related to the development of the library and information resource capability of SUT and the role that Guelph and other members of CUTC might play in helping to develop that aspect of SUT. •Visits to Canadian private sector companies to explore library automation systems, including equipment and software.

Outcomes of University of Guelph Meetings:

- Food Sciences prepared to accept two candidates for PhD program. Linking supervisory role of the Canadian faculty to the development of the undergraduate international program may be a way of accomplishing two objectives with the same travel expenses.
- Food Sciences could accept ten students in third and fourth year.
- It was determined that the outline of the proposed project is very feasible from Food Sciences point of view.
- Developed plans for Dr. Black to travel to Thailand soon, for specific advice on the next steps to be taken in regard to a number of library issues.
- Discussion of training component of professional library staff in project proposal. The proposed "provision of technical assistance to SUT to develop non-academic administrative infrastructure" would be better achieved with two shorter visits rather than one four-week visit.
- Discussions of more extensive communication links to be set up between SUT and CUTC institutions

University of Waterloo, Waterloo, Ontario

Monday March 8 and Tuesday March 9	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Alan George, VP, Academic Pauline O'Neill, International Liaison Officer Murray Shepherd, Head Librarian Michael Ridley, Librarian for Systems Development Lorraine Beattie, Coordinator of Administrative Services Bruce MacNeil, Associate Librarian for Information	•Welcome to the University •Overview of the academic and administrative structure and organization of the University. •Overview of the functions of the International Programs Office and of Waterloo's current international programs. •General overview of the library services at the University. •Discussion of considerations for the creation of an entirely electronic library, including both technological needs and human resources. •Tour of the Davis Centre Library, showing how the collection is stored and accessed, and services provided.
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Monday March 8 and Tuesday March 9 (cont'd).	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	David Burns, Dean of Engineering Gerry Schneider, Associate Dean, Faculty of Engineering Herb Ratz, Director of Exchange Programs, Faculty of Engineering	•Discussions on Waterloo's undergraduate program and various scenarios through which Thai undergraduate students might participate in the program. Participation would have to be limited to two or three students per year. •Discussion of problems/difficulties in first year and transition from high school. •Discussion of mechanisms used to ensure quality of applicants. •Discussion of various fee/registration scenarios (need for visas to participate in co-op programs).
	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	John Westlake, International Coordinator, Cooperative Education and Career Services	•Overview of the Co-operative Education and Career Services Department. •Discussed: the role of the coordinators and the placement process, including work/study sequence; the interview process; the computerized ranking and placement system; work term requirements; employer evaluations; and student work reports.
	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean	Bud Walker, Director, Data Processing	•Overview of Waterloo's computerized information management systems, including student course information and registration, administrative information, library systems, space management, physical plant, retail management, and many ancillary services. •Discussion of considerations for the creation of an integrated system, with decentralized operation but central control. •Discussion of priorities in the implementation of computerized systems.

Outcomes of University of Waterloo Meetings:

- An assessment of the strategies developed by University of Waterloo to secure the participation of Canadian enterprise in cooperative education programs.
- An assessment of the policies and administrative structures developed by University of Waterloo for the integration of cooperative education into its academic program.
- A commitment of the University of Waterloo's Department of Mechanical Engineering to the proposed applied science and engineering undergraduate program within the proposed institutional linkage project and the joint international PhD program.
- Preliminary commitment to possible information liaison and data sharing between Waterloo and SUT.

Ryerson Polytechnical Institute, Toronto, Ontario

Wednesday March 10	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean	Sam Mikhail, Director, Ryerson International Marsha McEachrane-Johnson, Associate, Ryerson International Sue Halpin, Bell/Northern Telecom Research Dave Hann, IBM	•Briefing on involvement of private sector companies in the cooperative education programs of various universities in Canada. •Discussions on possibility of having Thai students complete their co-op term at either of these companies' branches in Thailand proved promising. •Both companies will study placement of Thai co-op program students in Canada and their counterparts in Thailand.
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Thursday March 11	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean Dr. Ongkan Indrambarya Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Thawatchai Teekachunhatean Dr. Ongkan Indrambarya Thai Delegation	Dennis Mock, Vice President, Academic Sam Mikhail Marsha McEachrane-Johnson Stalin Boctor, Chairman, Department of Electrical Engineering Morven Wilson, Director, Computing and Communications Services William White, Dean of Applied Science and Engineering Stalin Boctor Richard Malinski, Chief Librarian Bob Jackson, Library Automation Sam Mikhail Stalin Boctor Marsha McEachrane-Johnson	•VP, Academic indicated Ryerson commitment to CUTC and to the SUT proposed project. •Suggested areas that Ryerson can share its specialization with SUT including engineering accreditation, telecommunications, etc. •Briefing by representatives of Finance, Admissions, Student Information, Registration, and Human Resources Departments on assessment of use of computers in each of the areas. •Discussions on existing computerized management information system, and how SUT could benefit from Ryerson's experience. •PhD and international science and engineering programs were discussed extensively and the Dean expressed support for the project. •Discussion on success of co-op program at Ryerson, and recommendations for development of close ties with industry in Thailand to support such an initiative there. •An assessment of the library automation system at Ryerson. •Discussions on concept of remote access. •Discussions on suggested software packages for use in SUT's library automation. •A review of the two-week mission activities and overview of proposed project plan, management, activities, deliverable-based budget in preparation for final meeting, Friday March 12, 1993.
Friday March 12	Dr. Sam-arng Srinilta Dr. Tavee Lertpanyavit Dr. Ongkan Indrambarya Dr. Thawatchai Teekachunhatean	Sam Mikhail Marsha McEachrane-Johnson Stalin Boctor William Caley Pauline O'Neill Gerry Schneider Kath Beaven Marc LeMaguer John Black	•Review of discussions on implementation of a management information system for SUT. •Discussions on the involvement of industry in the SUT co-op education program. •The definition of the organization and structure of the project management implementation unit and project review committee. •Review of proposed deliverable-based budget with discussions on changes that need to be addressed prior to project proposal submission.

Outcomes of Ryerson Meetings:

- Preliminary plan developed for library information services and networks for the library at SUT; confirmation of activities to support the development of the library within the project.
- Preliminary plan outlined for the integration of cooperative education in academic programs at SUT, and discussions on how this may be supported by the project
- Preliminary plan for the establishment of joint international applied science and engineering undergraduate programs, as well as PhD programs at SUT. Outline of each CUTC institution's roles and responsibilities. Confirmed commitment of each institution's relevant department. Confirmation of the disciplines, sequencing, logistics, and numbers involved in proposed programs.
- Discussions on a detailed time plan for activities in the proposed project.
- Plan for gathering of information and documents necessary for inclusion in project proposal.