



บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

Center for International Affairs	
No.	1942/38
Date	29 Dec 95
Time	13:50 v
File	

หน่วยงาน Center for Scientific and Technological Equipment.

ที่ Ref.No. 1140 วันที่ 29 December 1995.

เรื่อง Renomination of trainees in the field of Electron Microscopy.

เรียน Professor Dr. Umaly, Director of Center for International Affairs.

Dear Professor Umaly

Please refer to our letter Ref.No. 5132/1070 dated 21 November 1995 and our recent conversation about the offer from CUTC for the training on Electron Microscopy early next year. As a result we would like to renominate the trainees as follows:

1. Ms. Warawan Ratanachai (already nominated)
2. Ms. Anik Janyooyen (new nominee)

Both of them appear in the list of the EM's trainees proposal submitted to the CUTC last year.

Thank you for your kind attention

Virul Mangclaviraj

(Virul Mangclaviraj)

Director

Center for Scientific and Technological Equipment.



The Center for Scientific and Technological Equipment. Tel. 6123, 3133

Ref.No. 5132/ 1070

21 November 1995.

Training Period.

Dear Prof. Dr. Umaly.

The training period in Canada for Ms. Warawan Ratanachai in Biological Electron Microscopy and Ms. Boontharica Muangkratoke in Nuclear Magnetic Resonance Spectrometry will be from 9 to 28 April 1996. Please arrange accordingly.

Thank you for your kind attention.

(Virul Mangclaviraj)

Director

Center for Scientific and Technological Equipment.

PROPOSED STUDY TOUR IN CANADA

1. Mr. Sarawut Sujitjorn , Ph.D., member IEEE

Assistant Professor of Electrical Engineering and Chair , School of Electrical Engineering , Suranaree University of Technology , Thailand

2. (To be identified)

Senior or Chair of School of Mechanical Engineering.

a. Date : 27 April - 3 June 1995

b. Areas of Interest to be discussed :

- Academic policies concerning promotion , graduation , student conduct , code of ethics etc.
- Faculty appointment , supporting staff appointment , tennure - track and tennure requirement etc.
- Research administration matters ;
- Curriculum planning , development and implementation ;
- Co - op administration and implementation ;
- Professional program accreditation procedures ;
- Management issues and functions , authorities and responsibilities , morale and the collegial system of governance ;
- Post graduate program planning and implementation ;
- Enrolment planning and associated human resource allocation ;
- Budget allocation and control mechanism ;
- Staffs exchange and joint research activities.

c. Purposes of visit

(1) To discuss with Head and staffs of Mechanical Engineering Department , University of Waterloo and Head and staffs of Electrical Engineering Department , Ryerson Polytechnic University in :

- Curriculum planning and development including outline in program structures , course and curriculum — guidelines , laboratory design , major equipment lists , laboratory manuals
- Staffs exchanges
- Joint research and other cooperative activities

(2) To visit and discuss with Academic administrators and staff members of CUTC of various topics in the area of interest stated above in (b)

d. Proposed schedule :

27 April 1995	Leaving Bangkok
28 April	Arrival in Toronto
1 - 10 May	Visiting University of Waterloo
11 - 19 May	Visiting Ryerson Polytechnic University
22 - 25 May	Visiting University of Nova Scotia
26 - 31 May	Visiting University of Guelph
2 June	Leaving Toronto
3 June	Arriving Bangkok

6. $d_{\text{eff}} = 1.0 \times 10^{-10} \text{ m}$

บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

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วันที่

เรื่อง

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into American Fax and how
and international schedule for
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Feb 6, 95

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10/10/2020

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กษัตริย์แห่งสยามประเทศ ขอรับรอง
ที่ 9 ณ วันที่ 538

(7) ปัญหา ความไม่สงบ

1. $\text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{H}_2\text{CO}_3$

Hassan

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[illegible]



บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

ส่วนราชการ.....

ที่..... วันที่.....

เรื่อง.....

เรียน รองศาสตราจารย์ ดร. พงษ์ศักดิ์ วัฒนชัย
เพื่อพิจารณาเรื่อง FOM วิชาการเพื่อ
น้อมนำนโยบายของมหาวิทยาลัย Schedule 2
ส่วนกลาง เรื่อง CIA 8-10-11 FOM
ทศ. (ความดี 100 ปี ม.อ.สุรนารี 100 ปี)
ด่วน

วันที่
Feb 6, 95

เรียน รองศาสตราจารย์ ดร. พงษ์ศักดิ์ วัฒนชัย
เรื่อง FOM วิชาการเพื่อ
น้อมนำนโยบายของมหาวิทยาลัย
FOM 100 ปี ม.อ.สุรนารี 100 ปี (Conf)
กวดขัน 100 ปี ม.อ.สุรนารี 100 ปี
ก 9 ก.ว. 38 100 ปี ม.อ.สุรนารี 100 ปี
100 ปี ม.อ.สุรนารี 100 ปี

เรียน พจนานุกรม
พจนานุกรมและเอกสาร มว (๑๐๐)

วันที่ 7 ก.พ. 95

7 ก.พ. 2538

**Facsimile
Communication
Cover
Sheet**

DATE: February 3, 1995
DESTINATION FAX #: 011-66-44-216127
Please deliver attached pages to:
NAME/TITLE: Dr. Ruben Umaly
COMPANY/INSTITUTION: Suranaree University of Technology
ADDRESS: Nakhon Ratchasima, Thailand
You will receive 2 page(s) of copy including this cover sheet. If the entire transmission is not received, please contact us as soon as possible. Our operator can be reached at (416) 979-5026.
FROM: Jennifer Sherwood

Dear Dr. Umaly:

In response to your recent faxes:

I have tried to contact the Ontario Science Centre on your behalf, but to this point have not had any success in getting thought to Ms. Szczasiuk. I will continue to work on that.

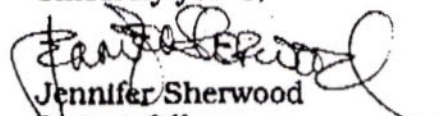
I've received your request for CUTC promotional material to be presented at the press conference in Bangkok on March 2nd. I will follow up with relevant CUTC personnel and have each university send information directly to you by air parcel. I believe this will more efficient than having the information sent first to me.

With regard to the next two groups of SUT visitors coming to Canada, Dr. Boctor has developed the attached institutional attachment schedule, and it has been approved by all four CUTC partner universities. Please confirm that the itineraries appear appropriate to SUT personnel involved and fax your agreement back to me next week. The only way that we can accommodate the second group after April is to shorten their stay to three weeks, as the first week of May is very busy for faculty with marking and promotion meetings, and June-August are prime vacation months, and the faculty are often out of the office at this time. I hope that this shorter schedule will not create any inconvenience.

Please confirm the dates for the first group, and we will proceed with air and hotel reservations.

Looking forward to seeing you soon.

Sincerely yours,


Jennifer Sherwood
Project Officer

Proposed Schedule for SUT Visitors: March/April/May 1995

	Date	March			April		May		
		13,14, 17	20	27	3	10	8	15	22
	University	W: Waterloo	T: TUNS	G: Guelph	R: Ryerson				
1)	Dr. Kasem, Dean Resource Technology	R W	T	T					
2)	Dr. Chaiyot, Ch.E.	R W	T	T					
3)	Dr. Rubin, CIA	R W	T	G	R	Ottawa/ Montreal			
4)	Dr. Weerapun, VP Planning						W	T	R
✓ 5)	Dr. Thai (Registrar/Admissions)						W	T	
6)	Staff, CIA						R	T	G
✓ 7)	Dr. Weerapong, CCS						W	T	G
8)	Dr. Sarawut, EE						W	W/R T/G	R
✓ 9)	Senior Lecturer, MB						W	W/R T/G	R
✓ 10)	Director, Co-op						W	T	G
✓ 11)	Mr. Suriya, Dean						W	G	R
12)	Dr. Ongkan, Lib						W	G	R

Waterloo: 12 weeks, TUNS: 10 weeks, Guelph: 7 weeks, Ryerson: 8 weeks



The Centre for International Affairs

Ref. ^{1346/38}บันทึกข้อความ **7 AUG 1995**
มหาวิทยาลัยเทคโนโลยีสุรนารี
Time ^{8:30 น}..... ๓

ส่วนราชการ.....

ที่..... วันที่ 7 Aug. 95

เรื่อง.....

Attn: Director, CIA.

File

The director of the Centre for Sci & Tech. Equipment is proposing a study tour and training under the title
" Visiting Research Units and OST "
SLIP-CLISC PRC. The proposal is herewith.

The VR. for planning wants this subject to be discussed in the PRSC meeting before the PRC meeting. I did reproduce the document enough for the PRSC meeting.

I also have asked for the complete SLIP curricula which will be due to the Planning Division by 18 Aug.

If you call for the PRSC meeting, please make it the week after the 18th i.e. the 25th at the most.

Krakul.

มหาวิทยาลัยเทคโนโลยีสุรนารี PRC II 2-6 Oct. 95, WP. 16



สำนักงานอธิการบดี
มหาวิทยาลัยเทคโนโลยีสุรนารี
วันที่ ๒๘ ก.ค. ๒๕๓๖ เวลา ๑๐.๑๕ น.

หน่วยงาน... ศูนย์เครื่องมือวิทยาศาสตร์และเทคโนโลยี

ที่ ทม. 5132 / 642

วันที่ ๒๖ กรกฎาคม พ.ศ. 2538

เรื่อง ส่งข้อเสนอโครงการ "ทัศนศึกษาและฝึกอบรมทางวิชาการ"

๓ **เรียน** รองอธิการบดีฝ่ายวางแผนและพัฒนา

ด้วยศูนย์เครื่องมือวิทยาศาสตร์และเทคโนโลยี ได้รับทราบว่าเป็นไปได้ที่ความร่วมมือระหว่างสถาบันในประเทศแคนาดาและมหาวิทยาลัยเทคโนโลยีสุรนารี ตามโครงการ SUT-CUTC นั้น จะจัดให้มีการร่วมมือในเชิงการฝึกอบรมด้านเครื่องมือเพื่อการวิเคราะห์ วิจัยขั้นสูงรวมทั้งการไปทัศนศึกษาในส่วนที่จะเป็นประโยชน์ต่อการจัดตั้งงานบริการวิชาการ การวิจัยและการจัดตั้งเทคโนโลยี ศูนย์เครื่องมือฯ ตระหนักถึงคุณประโยชน์ที่จะได้จากกิจกรรมดังกล่าว จึงได้นำเสนอโครงการ "ทัศนศึกษาและฝึกอบรมทางวิชาการ" ภายใต้ชื่อโครงการภาษาอังกฤษว่า **"Visiting Research Units and OJT"** ดังมีข้อเสนอโครงการตามที่แนบ

ศูนย์เครื่องมือฯหวังเป็นอย่างยิ่งว่าจะได้รับการพิจารณาจากท่านนำเข้าร่วมหารือใน SUT-CUTC PRC ซึ่งกำลังจะมีการประชุมที่มหาวิทยาลัยเทคโนโลยีสุรนารีในเร็วๆนี้ ทั้งนี้เพื่อจะได้เป็นการพัฒนาความรู้ความสามารถของบุคลากรมหาวิทยาลัยให้เขาเหล่านั้นได้ปฏิบัติการกิจของมหาวิทยาลัยให้เกิดประโยชน์สูงสุดต่อไปในอนาคต

จึงเรียนมาเพื่อพิจารณาดำเนินการให้ต่อไปด้วย จักเป็นพระคุณยิ่ง

০৭নং খ. নং ০৫০

(รองศาสตราจารย์ วิรุฬห์ มังคละวิรัช)

ผู้อำนวยการศูนย์เครื่องมือวิทยาศาสตร์และเทคโนโลยี

② 13th wk. p. 100-110
15th wk. p. 110-120
In SAT - SPRC meeting now
o: 15th wk pre meeting

30/10/20

3/na 2v

Visiting Research Units and OJT

A Proposal for Submission to **SUT - CUTC PRC**

25 July 1995

Assoc. Prof. Virul Mangclaviraj, Director
The Center for Scientific and Technological Equipment
Suranaree University of Technology
Nakhon Ratchasima, Thailand

Proposal format :

1. Project Title
2. Brief Description
3. Rationale
4. Objectives
5. Needs

Attachments : Resumes of Visitors and Trainees

Visiting Research Units and OJT

1. Project Title

" Visiting Research Units and On-the-Job Training "

2. Brief Description

The Center for Scientific and Technological Equipment (CSTE) is responsible for the provision of training equipment for study programs and research equipment for the university. Also, it will be involved in the establishment of equipment and relevant services for the SUT technopolis, ie research park or science park. Therefore, the CSTE is seeking for useful information and training to support such activities. This can be classified into two categories which are study tour and on-the-job training (OJT). The detail is described in the item 5.

3. Rationale

Suranaree University of Technology (SUT) commenced its teaching duty in 1993 with about 700 undergraduate students. At present, the university handles about 3,000 undergraduate ones. The figure will grow to 4,500 approximately in a year to come. The university is now running only undergraduate programs in engineering and technology. These programs are such as agricultural engineering, chemical engineering, civil engineering, electrical engineering, industrial engineering, mechanical engineering, animal breeding technology, plant breeding technology, and transportation technology. Establishment and management of the undergraduate laboratories is the responsibility of the CSTE in collaboration with relevant institutes, ie faculties. The university also commits its duty to provide postgraduate programs in science and engineering in the next few years. Thus, the other task of the CSTE is to provide common sophisticated equipment for research purposes, eg electron microscope, material testing instrument, elemental analysis and compound characterisation equipment, etc. The staffs of the CSTE will have to conduct appropriate tests upon requests.

According to Thailand's 8th University Development Plan, SUT will have to establish its Technopolis by 1996. In this, the CSTE will have to bear responsibility for the preparation of space arrangement as well as the provision of equipment. Such equipment will be vital for the development of some pilot projects and the dissemination of knowledge to industrial sections, and even an ambitious aim of technology transmission. These reflect the needs for human resource development to support the functions of the CSTE.

4. Objectives

4.1 General Objectives

1. To acquire some information on technological advancement useful for establishing research and training units.
2. Provide specific training for staff working on some sophisticated equipment.

4.2 Specific Objectives

1. To visit "Phytotron" and relevant research units in Canada.
2. To visit Science or Research Parks in Canada.
3. To provide on-the-job training for CSTE staffs on Electron Microscopy and Spectrometry.

5. Needs

5.1 Study Tour

A group of 3 persons will visit Canadian research units concerning with phytotron, plant science research and radiation processing. This is to assess useful information on establishing and managing the units. The same party will also visit Canadian research parks for the similar purposes. The party consist is :

1. Assoc. Prof. Virul Mangclaviraj, Director, The Center for Scientific and Technological Equipment, SUT,
 2. Dr. Yuvadee Manakasem, Lecturer and Researcher in Plant Science, Institute of Agricultural Technology, SUT, and
 3. Mr. Arwuth Intharachun, Chief, Division of Instructional Laboratory, The Center for Scientific and Technological Equipment, SUT.
- (Resume of the individual is attached.)

5.2 On-the-Job Training

The CSTE strongly needs well-trained staffs to operate sophisticated instruments that are electron microscopy and compound characterisation equipment. OJTs needed are as follows :

1. Eight week training on "biological electron microscopy",
Trainee : Ms. Warawan Ratanachai, Chief, Biology Laboratory, The Center for Scientific and Technological Equipment, SUT,
2. Eight week training on "material science electron microscopy",
Trainee : Ms. Anik Janyooyen, Chief, Physics Laboratory, The Center for Scientific and Technological Equipment, SUT,
3. Eight week training on "nuclear magnetic resonance spectrometry",
Trainee : Ms. Boontharica Muangkratoke, Scientist, Division of Instrumental Analysis, The Center for Scientific and Technological Equipment, SUT, and
4. Eight week training on "GC/Mass spectrometry",
Trainee : Ms. Anchalee Peerapattanapong, Scientist, Division of Instrumental Analysis, The Center for Scientific and Technological Equipment, SUT.

(Resume of the individual is attached.)

Attachments

- Resume : Assoc. Prof. Virul Mangclaviraj.
- Resume : Dr. Yuvadee Manakasem.
- Resume : Mr. Arwuth Intharachun.
- Resume : Ms. Warawan Ratanachai.
- Resume : Ms. Anik Janyooyen.
- Resume : Ms. Boontharica Muangkratoke.
- Resume : Ms. Anchalee Peerapattanapong.

Curriculum Vitae

1. Biographical Data

1.1 Name : Mr. Virul Mangclaviraj
1.2 Birth Place + Date : Bangkok, Thailand
24 October 1933
1.3 Marital Status : Married with two children

2. Educational Attainment

2.1 1953 - 1957 B.Sc. in E.E (First Class Honours)
Faculty of Engineering, Chulalongkorn
University, Thailand
1959 - 1962 Diplom-Ingenieur (Sehr Gut)
Elektrotechnik, Technical University of
Stuttgart, Germany
1962 - 1963 Microwave Research Training, Institut für
Höchstfrequenztechnik, Technical
University of Stuttgart, Germany
1967 - 1968 Research Training in Electron Spin
Resonance in Solids, Department of
Physics, Hebrew University of Jerusalem,
Israel

3. Specialty Fields

Electromagnetic Fields and Waves,
Nuclear Instrumentation and Instrumental
Analysis

4. Present Employer and Position in Suranaree University of Technology (SUT)

4.1 Present Employer Associate Professor in Electrical
Engineering, Institute of Industrial
Technology, Suranaree University of
Technology (SUT)
4.2 Other Position in SUT
1992 - Present Director, The Center for Scientific and
Technological Equipment.

1993 - Present

Member of the Academic Senate

1993 - Present

Member of the University Council

5. Employment Record and Assignments

5.1 Academic Positions in Chulalongkorn University

1963 - 1964

Lecturer in Electromagnetic Theory and
Advanced Electronics at the Department
of Electrical Engineering, Faculty of
Engineering

1977 - 1979

Senior Lecturer in Nuclear Instrumentation
and Applied Mathematics in Nuclear
Technology, Department of Nuclear
Technology, Faculty of Engineering

1979 - 1982

Assistant Professor in Nuclear Technology,
Department of Nuclear Technology, Faculty
of Engineering

1982 - 1994 (retired).

Associate Professor in Nuclear
Technology, Department of Nuclear
Technology, Faculty of Engineering,

5.2 Other Positions in

Chulalongkorn University :

1978 - 1983

Member of the Board of Faculty of
Engineering

1979 - 1983

Chairman of the Committee for Energy
Saving, Faculty of Engineering

1981 - 1986

Member of the Committee for Planning
and Development, Faculty of Engineering

1980 - 1981

Member of the Committee on the
Utilization of Major Scientific Equipment

1981 - 1983

Project Leader on the Establishment of
Scientific and Technological Research
Equipment Centre in Chulalongkorn
University

1984 - 1988

Member of the Committee for planning
and Development, Chulalongkorn University

1983 - 1991

Director of Scientific and Technological
Research Equipment Centre, Chulalongkorn
University

5.3 Positions in Other Government

Institutions :

1957- 1958

Second Lieutenant, Maintenance of
Measuring Instruments in Aircrafts,
Directorate of Air Engineering, Royal Thai
Air Force

1964 - 1976

Electronic Engineer, Electronics
Instrumentation Division, Office of Atomic
Energy for Peace

1976 - 1977

Director, Electronics Instrumentation
Division, Office of Atomic Energy for peace

6 Academic Experience

Please see 5.1

7. Administrative Experience

Please see 5.2 and 5.3

8. Professional and Technical Associations

8.1 Member of the IEEE (Institute of Electrical and Electronics Engineers, Inc)

8.2 Senior Member of the Engineering Institute of Thailand

8.3 Member and founder of the Electron Microscopy Society of Thailand

9. Professional Training Seminars and Meetings

4 - 15 October 1965

*Advanced Training Seminar on
Radioactive Waste Management*
Japan Atomic Research Institute

10 August - 18 September 1970

*Study Tour on Industrial Applications of
Radioisotopes and Radiation Technology
in USA and Canada

28 September - 2 October 1970

*Panel Meeting on Radiation Processing
Techniques of Special Interest to
Developing Countries* Seoul, Korea

16 July - 5 August 1973

*Study Tour at the Institute of Nuclear
Science, Tsing - Hua University and
Nuclear Energy Research Institute, Taipei,
Republic of China

3 - 18 December 1973

*Regional Survey and Briefing Course on
the Technical and Economic Aspects of
Nuclear Power Development, Bangkok,
Thailand

16 - 27 February 1976

*Training Course on the Technical and
Economic Aspects of Nuclear Power*
Manila, Philippines

1 April - 30 June 1977

*Study of the Development of Arc Plasma
in Research and Metal Industry* Institute
of Materials Science, Technical University
of Hannover, Germany

10. Research Experiences

10.1 Nuclear and Thermal Plasma Instrumentation Development

1962 - 1963

Development of Portable Scaler Nuclear
Instrument Development Programme,
THAI AEC (Thai Atomic Energy Commission,
Office of Atomic Energy for Peace)

1963 - 1964

*Development of High Voltage Power
Supply* Nuclear Instrument Development
Programme, THAI AEC

1970

BF₃ Cable Driver* Nuclear Instrument
Development Programme, THAI AEC

1971 - 1972

Portable Scaler Model 1204 Nuclear
Instrument Development Programme,
THAI AEC

1975 - 1976	"Argon,Nitrogen Arc Plasma Development" Project on Nuclear Materials Development THAI AEC
1979 - 1980	"Nuclear Pulsers" supported by Department of Nuclear Technology, Faculty of Engineering, Chulalongkorn University
1979 - 1981	"Density and Moisture Measurement using Nuclear Techniques" Supported by Thai Government Research Fund
1980 - 1981	"Arc Plasma Development" Supported by Faculty of Engineering, Chulalongkorn University

11 Publications

- 11.1 V. Mangclaviraj and P. Nuannin "Analytical X-Rays I" Thailand Engineering Journal, Vol 38(5), October 1985 pages 53-60
- 11.2 V. Mangclaviraj and P. Nuannin "Analytical X-Rays II" Thailand Engineering Journal, Vol 39(5) October 1986 pages 113-118
- 11.3 V.Mangclaviraj, W.Banchorndhevakul, V.Tanratnakul and S.Vetchagarun "Electron Microscopy in Analysis Service" Proceedings, 4th Asia-Pacific Conference and Workshop on Electron Microscopy, Bangkok, 1988, pages 47-52
- 11.4 V.Mangclaviraj and W.Banchorndhevakul "Case Studies on the Analysis of Fractures and Properties of Materials I" Metals, Materials and Minerals Bulletin Vol 1(2), June 1989 pages 8-16 Metallurgy and Materials Research Institute, Chulalongkorn University
- 11.5 W. Banchorndhevakul and V. Mangclaviraj " Case Studies on the Analysis of Fractures and Properties of Materials II" Engineering Journal Vol 7(1), July 1989 Faculty of Engineering, Chulalongkorn University
- 11.6 V. Mangclaviraj and S. Punnachaiya "Principle and Generation of Arc Plasma" Proceedings of the Regional College on Plasma Applications, Hatyai, Songkhla, January 1990, pages 57-79
- 11.7 V. Mangclaviraj, S. Punnachaiya and F. Erdmann Jesnitzer "Some Applications of Thermal Plasma in Metallurgy" Proceedings of the Regional College on Plasma Applications, Hatyai, Songkhla, January 1990, pages 81-99

CURRICULUM VITAE

NAME : MISS YUVADEE MANAKASEM

DATE AND PLACE OF BIRTH : March 2, 1951, Bangkok, Thailand

NATIONALITY : Thai

MARITAL STATUS : Single

EDUCATION : High School at Satree Pratuengwit School
Bangkok in 1970.

: Bachelor of Science (Agriculture).
Major Plant Science.
Khon Kaen University 1975.

: Master of Science.
Major in Crop Physiology.
University of the Philippines at Los Banos
(UPLB) 1984.

: Doctor of Philosophy (Ph.D. in Horticulture)
The University of Sydney
N.S.W. Australia 1991.

English ability: : Very Good

Address (Home) : Dr. Yuvadee Manakasem
907 Soi Kingpetch
Petchburi Road, Bangkok 10400. THAILAND
Tel: 216-6392 (Sat & Sun)

(Office) : Dr. Yuvadee Manakasem
Institute of Agricultural Technology
Suranaree University of Technology
Nakhon Ratchasima 30000 THAILAND
Tel: (044) 216191-8 Ext 2275
Fax: (044) 216102
E-mail: yuvadee@sura1.sut.ac.th

RESEARCH EXPERIENCE:

- 1976 - 1980 Research on the diseases and their control both of silk worm and mulberry tree, concentrated on the fungi diseases (*Aspergillus sp.*) of silk worm, also the research on egg production of a Japanese variety of silk worm. This is to support the land settlement, under USA government joint project with Sericulture Institute of Department of Agriculture.
- 1980 - 1987 Research work on plant tissue culture, the nutrition and hormonal factors of plant growth and also the effect of environment such as light and temperature in the laboratory by using meristems of *Chrysanthemum morifolium* as the test plant.
- Research on screening varieties of some promising lines and cultivars of mulberry plant by using plant tissue culture technique.
- Study on screening varieties of some economic plants such as soybean for each environmental constraints as drought, saline and acid sulfate soils for rainfed areas by using tissue culture technique (Soybean Tissue Culture for Acid Tolerance).
- Jointing the UNDP/FAO project, because of getting the UNDP/FAO scholarship from the project on Integrated Rainfed Farming Research and Development in 1982 - 1984, studying Crop Physiology at the University of the Philippines at Los Banos [My master thesis is "Microclimate of Corn] (*Zea mays* L.) + Mungbean (*Vigna radiata* (L.) Wilczek) Intercrop at Three Planting Densities of Corn, by helping the project on the aspects of microclimate in the project sites and also in editing the publications of the rainfed project's materials.
- 1987 - 1991 Research on physiology of flowering and fruit set in strawberry. Particularly how to control growth, flowering and fruit set by environmental means. I am more keen on the effect of temperature on growth, flowering and fruit set in strawberry, than the effect of day length, nutrition stress and water stress on growth, flowering

and fruit set in strawberry. My Ph.D. thesis is "Temperature and strawberry (*Fragaria ananassa* Duch.) Production".

CURRENT RESEARCH:

Started research on Mangosteen (*Garcinia mangostana* L.) and Rumbutan (*Nephelium lappaseum* L.) with the aspect of how the environment such as maximum and minimum temperatures, day length and probably rain fall effect flowering process of those two crops. Furthermore, I would like to see the morphological changes in their apices started from vegetative phase to reproductive phase-induction, initiation and development of flower). The phenology of these crops will also be studied both at apices level and vegetation level. Finally, the kind and amount of hormone that effect flowering of the mentioned crops will be analysed from induced apices.

PUBLICATIONS

1. ISARANGKUL, L. and Y. MANAKASEM. 1977 Study on Aspergillus Disease of Silk Worm. Research Report of Department of Agriculture. (in Thai)
2. MANAKASEM, Y. and P. KAMMUENG. 1981 Procedure for farm Trials. Booklet P 19, Funny Press. (in Thai)
3. PANTASTICO, E. B. and Y. MANAKASEM 1982. Rainfed Crop Production Research and Development. Proc., DOA Ann. Conf.
4. MANAKASEM, Y., 1982 Study on Growth of *Chrysanthemum morifolium* Meristems by Tissue Culture Technique. Annual Report of Botany and Weed Science Division, DOA. (in Thai)
5. MANAKASEM, Y., 1984 Microclimate of Corn (*Zea mays* L. + Mungbean (*Vigna radiata* (L.) Wilczek) Intercrop at Three Planting Densities of Corn. MS Thesis, UPLB, College, Laguna, Philippines. 129 p.
6. MANAKASEM, Y., 1985 Tissue Culture of Mulberry for Rapid Propagation. Annual Report of Botany and Weed Science Division, DOA. (in Thai)
7. PANTASTICO, E. B., MANAKASEM, Y., and P. CHOTIKUNTA. 1985 Women in Agriculture : Issues and Research Questions in Thailand Proceedings. Farming System Research Institute. DOA. 13 p.
8. PANTASTICO, E. B., CHANDRAPANYA, D., MANAKASEM, Y., and P. CHOTIKUNIA. 1985. Farming Systems Development in Thailand. Proceedings FAO Seminar, RAPA, BANGKOK. 20 p.

9. MANAKASEM, Y., et. al., 1985. Mungbean-Rice System. Extension Leaflet. Rainfed Farming Research and Development Project. Farming System Research Institute. DOA. (in Thai)
10. MANAKASEM, Y., et. al., 1985. Direct Seeded Rice. Extension Leaflet. Rainfed Farming Research and Development Project. Farming System Research Institute DOA. (in Thai)
11. MANAKASEM, Y. 1991. Temperature and Strawberry (*Fragaria ananassa* Duch) Production. Ph. D. Thesis. The University of Sydney. N.S.W. Australia.
12. MANAKASEM, Y., et. al. 1995. Changes in Apices and Effect of Microclimate on Floral Initiation of Mangosteen (*Garcinia mangostana* L.). Suranaree J. Sci Technol. 2 : 15-20
13. MANAKASEM, Y., et. al. 1995. Changes in Apices and Effect of Microclimate on Floral Initiation of Rambutan (*Nephelium lappaceam* L.) Suranaree J. Sci Technol. 2 : (in press)

REFEREES

1. Dr. John M. Shciller. LAO - IRRI Project. P.O. BOX 4195 Vientiane, LAO PDR.
2. Dr. P.B. Goodwin. Reader in horticulture, The School of Crop Sciences. The University of Sydney. N.S.W. 2006. Australia.
3. Dr. Rod King. Division of Plant Industry, CSIRO. GPO BOX 1600, Canberra ACT 2601. Australia.
4. Dr. Ray Ison. The School of Crop Sciences. The University of Sydney - N.S.W. 2006. Australia.
5. Dr. Ann. Eyland, the principal. The Womens College The University of Sydney. N.S.W. 2006. Australia.
6. Dr. R.P. Robles. Department of Agronomy. The University of the Philippines at Los Banos (UPLB). Languna, the Philippines.

RESUME.

1. Personal Information

- | | | |
|-----|--------------------|---|
| 1.1 | Name | Mr. Arwuth Intharachun. |
| 1.2 | Present Address | 268 Moo 6 Tumbol JoHo, Muang District
Nakhon Ratchasima, Thailand. |
| 1.3 | Birth Place & Date | Phitsanulok, Thailand
25 June 1962 |
| 1.4 | Race & Nationality | Thai+Thai |
| 1.5 | Religion | Buddhism |
| 1.6 | Weight & Height | 50 Kgs, 168 Cms. |
| 1.7 | Marital status | Married with one child |
| 1.8 | Office | The Center for Scientific and Technological
Equipment
Suranaree University of Technology
111 University Avenue, Tumbol Suranaree
Muang District, Nakhon Ratchasima,
Thailand. 30000
Tel. (044) 216123 Ext. 3137 |

2. Educational Background.

- | | | |
|-----|-------------|---|
| 2.1 | 1982 - 1984 | Diploma in Machine Tool Technology
Institute of Technology and Vocational
Education-Nakhon Ratchasima Campus,
Thailand. |
| 2.2 | 1984 - 1986 | B.Eng, in Industrial Engineering. (MHT).
Faculty of Engineering
King Mongkut's Institute of Technology
North Bangkok Campus (KMIT-NBK),
Thailand. |

3. Experience.

- | | | |
|-----|-------------|---|
| 3.1 | 1986 - 1990 | Plant Engineer, Division of Production and
Development, Kitemit Fibre Cement Co.,Ltd.
and Oranvanich Co.,Ltd. |
| 3.2 | 1990 - 1991 | Maintenance Engineer, Division of
Maintenance, CP. Food Products Co.,Ltd. |
| 3.3 | 1991 - 1993 | Project Engineer, Division of Project,
Laemthong Corporation Group. |

4. Present Employment and Position in Suranaree University of Technology.

- | | | |
|-----|----------------|---|
| 4.1 | 1993 - Present | Engineer 6, The Center for Scientific and Technological Equipment. |
| | 1994 - Present | Chief Basic Engineering Technology Laboratory, The Center for Scientific and Technological Equipment. |
| | 1995 - Present | Acting Chief-Division of Instructional Laboratory, The Center for Scientific and Technological Equipment. |

5. Training & Seminars Experience.

- | | | |
|------------------|------|---|
| 9 - 13 November | 1987 | "German Technology Symposium in Thailand"
Indra Regent Hotel, Bangkok, Thailand. |
| 20 - 23 November | 1990 | "Total Productive Maintenance."
Technological Promotion Association (Thai-Japan). |
| 11 - 15 November | 1991 | "Energy Saving in Factory"
Mahidol University, Thailand. |
| 7 - 11 March | 1994 | "Automation Control 1 (Pneumatic System)",
Ubon Ratchathani University, Ubon Ratchatani, Thailand. |

Resume

1. Personal Information

1.1 Name Miss Warawan Ratanachai

1.2 Present Address Sukaniwart Dormitory, Rm # 3059
111 University Avenue
Tumbol Suranaree, Muang District
Nakhonratchasima, 30000, Thailand.

1.3 Birth Place & Date Pattani
2 November 1969

1.4 Nationality Thai

1.5 Religion Buddhism

1.6 Weight & Height 64 kgs, 162 cms

1.7 Marital Status Single

1.8 Office The Center for Scientific and
Technological Equipment.
Suranaree University of Technology.
111 University Avenue, Tumbol Suranaree
Muang District, Nakhonratchasima, 30000
Thailand.
Tel. (044) 216191-8 Ext. 3200
FAX. (044) 216123

2. Educational Background

Degree	Field	Institut	Year of graduation
B.Sc.	Biology	Srinakharinwirote University, Songkhla, Thailand	1991

3. Employment

1992- Present

Chief Biology Laboratory. The Center for Scientific and Technological Equipment, Suranaree

1991 - Present

Scientist 4, The Center for Scientific and Technological Equipment, Suranaree

4. Awards

Certificate for Outstanding Academic Achievement in Biology (Thailand Institut of Scientific and Technological Research, 1988)

5. Scholarship

Undergraduate Scholarship the from Ministry of University Affairs (1991)

6. Senior Project.

Agar Quality of Gracilaria sp. in Pattani Harbour.

RESUME

1. Personal Information

1.1 Name	Miss Anik Janyooyen
1.2 Present Address	Sukaniwart Dormitory, Rm # 3124 111/1 Moo. 6, University Avenue, Tumbol Suranaree, Muang District, Nakhon Ratchasima, 30000, Thailand. Tel : (044) 216191-8 Ext. 6529
1.3 Birth Place	Bangkok
Date of Birth	27 Match 1967
Nationality	Thai
Religion	Buddhism
Marital Status	Single
1.4 Office	The Center for Scientific and Technological Equipment. Suranaree University of Technology. 111 University Avenue, Tumbol Suranaree, Muang District, Nakhonratchasima, 30000 Thailand. Tel : (044) 216191-8 Ext. 3200 Fax : (044) 216-123

2. Educational Background.

1993	B.Sc. (Physics), Ramkomchang University, Bangkok, Thailand.
------	--

3. Employment

1993-Present	Scientist, The Center of Scientific and Technological Equipment, Suranaree University of Technology.
--------------	--

4. Professional Memberships

Member, The Astronomy Association of
Thailand.

RESUME

1. Personal Information

- | | | |
|-----|--------------------|---|
| 1.1 | Name | Miss Boontharica Muangkratoke |
| 1.2 | Present Address | 269 Moo 7 Tumbol Ta Yium,
Aumphur Choke Chai
Nakhon Ratchasima, 30190 Thailand |
| 1.3 | Birth Place & Date | Nakhon Ratchasima, Thailand
5 February 1971. |
| 1.4 | Race & Nationality | Thai + Thai |
| 1.5 | Religion | Buddhism |
| 1.6 | Weight & Height | 55 kgs. 155 cms |
| 1.7 | Marital Status | Single |
| 1.8 | Office | The Center for Scientific and Technological
Equipment.
Suranaree University of Technology.
111 University Avenue, Tumbol Suranaree,
Muang district, Nakhon Ratchasima 30000
Thailand.
Tel : (044) 216191-8 Ext. 3410
Fax : (044) 612-123 |

2. Education Background

- | | | |
|-----|-------------|---|
| 2.1 | 1989 - 1991 | Associate Degree in Science
Major Analytical Chemistry
Ubon Teachers College, Ubon Ratchatani,
Thailand. |
| 2.2 | 1991 - 1993 | Bachelor of Science Major Chemistry
Ubon Teachers College, Ubon Ratchatani,
Thailand. |

3. Present Employment and Position in Suranaree University of Technology.

- | | | |
|-----|----------------|---|
| 3.1 | 1993 - Present | Scientist 4, The Center for Scientific and Technological Equipment. |
| 3.2 | 1993 - 1994 | Scientist, Chemistry laboratory, The Center for Scientific and Technological Equipment. |
| 3.3 | 1994 - Present | Scientist, Environmental Engineering Laboratory, The Center for Scientific and Technological Equipment. |

4. Training & Seminars Experience

- | | | |
|-----|-------------------------|---|
| 4.1 | 18 - 20 September 1993. | "GC, HPLC"
Landmark Hotel, Bangkok, Thailand. |
| 4.2 | 24 - 25 January 1995 | "Tecator Composition Analysis Seminar
Support Material"
Sithiporn associates Co. Ltd.
Bangkok, Thailand. |

RESUME

1. Personal Information

1.1 Name	Miss Anchalee Peerapattanapong.
1.2 Present Address	752/10-11 Moo 11 Tumbol Sungneon, Sungneon Distsict, Nakhon Ratchasima, Thailand.
1.3 Birth Place & Date	Nakhon Ratchasima, Thailand. 23 March 1970
1.4 Race & Nationality	Thai & Thai
1.5 Religion	Buddhism
1.6 Weight & Height	55 Kgs., 168 Cms.
1.7 Marital status	Single
1.8 Office	The Center for Scientific and Technological Equipment. Suranaree University of Technology 111 University Avenue, Tumbol Suranaree Muang District, Nakhon Ratchasima, Thailand. 30000. Tel. (044) 216191-8 Ext. 3129 or 3140

2. Educational Background.

2.1 1987 - 1991	B.Sc., in Analytical and Applied Chemistry. Faculty of Science Prince of Songkla University, Hatyai, Songkhla, Thailand.
-----------------	---

3. Experlence.

3.1 1991 - 1993	Chief of Quality Control and Reserch & Development, Mahaphant Concrete Roof Tile Co.,Ltd.
3.2 1993 - 1994	Chief of Center Testing Laboratory, Strongpack Public Co.,Ltd.
3.3 1994 - 1995	Chief of Reserch and Development, Tipco Asphalt Public Co.,Ltd.

4. Present Employment and Position in Suranaree University of Technology.

1995 - Present

Scientist, Analytical Equipment Section,
The Center for Scientific and Technological
Equipment.

5. Training & Seminars Experience.

April - May 1990

Training "Analytical Product of Petroleum",
Petroleum Authorization of Thailand,
Bangkok, Thailand.

7 - 11 November 1993

"ISO 9000"

Strongpack Public Co.,Ltd.

8-10 August 1994

"Calibration"

Technological Promotion Association
(Thai-Japan).

1 - 3 June 1995

"Application of Statistic in Process"

Tipco Asphalt Public Co.,Ltd.

6. Senior Project.

"Analytical Pesticide in Water by
Microextraction Gas Chromatography"



บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

ส่วนราชการ.....

ที่..... วันที่ 8 Aug. '95

เรื่อง The Agreement between SUT & other

SUT/CUTC partners

Attn: CIA director,

In my opinion all agreements ought to be initiated by the curricula-responsible key persons who knows all conditions and criteria, not by CIA which is an only coordinator. After initiation that is CIA can take it through.

For the ^{same} agreement between SUT & Gulph, Dr. Verd said it is not finished yet. He is asking Dr. Sam-ang to look at it before re-proposing the academic cabinet, not in the next meeting 9th Aug.

Kachul



บันทึกข้อความ

ส่วนราชการ

Acad. Senate SUT

ที่

วันที่

31 JULY

เรื่อง

Notification of Resolution of Academic Senate

12/1538

TO : DIR. CIA

The meetg on 6 July considered "The Draft Agreement of SUT + QUELPH, CANADA" which is one of the four Counterpart University under the cooperation project between The Canadian U. of Tech. Consortium & SUT or CUTC-SUT. The meetg agreed that the Academics & Agri. Tech. coordinate for improvement of details in drafted amended agreement and add for advantage of SUT, and that CIA considers that IUP should proceed on Letter of Agreement for all 4 University or not. Kindly be informed to proceed.

Prosat



บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

The Centre for International Affairs
Ref.No. 1898/38
Date 1 AUG 1995
Time 15.00 น.
10/8 12

หน่วยงาน สภาวิชาการ มหาวิทยาลัยเทคโนโลยีสุรนารี

ที่ ทม.5106/ 71

วันที่ 31 กรกฎาคม 2538

เรื่อง แจ้งมติที่ประชุมสภาวิชาการ ครั้งที่ 12/2538

เรียน ผู้อำนวยการศูนย์กิจการนานาชาติ

ด้วยในคราวประชุมสภาวิชาการครั้งที่ 12/2538 เมื่อวันที่ 6 กรกฎาคม 2538 ที่ประชุมได้พิจารณาครั้งที่ 5.1 เรื่อง ร่างข้อตกลงระหว่างมหาวิทยาลัยเทคโนโลยีสุรนารีและมหาวิทยาลัยเกลฟ ประเทศแคนาดา ซึ่งเป็น 1 ใน 4 ของมหาวิทยาลัย Counterpart ภายใต้โครงการความร่วมมือระหว่าง The Canadian Universities of Technology Consortium and Suranaree University of Technology หรือ CUTC-SUT ที่ประชุมฯ พิจารณาและมีมติเห็นชอบโดยมอบหมายให้ฝ่ายวิชาการ และสำนักวิชาเทคโนโลยีการเกษตรประสานเพื่อปรับปรุงรายละเอียดในร่างข้อตกลงแก้ไข และเพิ่มเติมสิ่งที่จะเป็นประโยชน์ต่อมหาวิทยาลัยเทคโนโลยีสุรนารี และให้ศูนย์กิจการนานาชาติพิจารณาว่าโครงการเปิดสอนหลักสูตรนานาชาติระดับปริญญาตรีควรจะดำเนินการทำ Letter of Agreement ไปพร้อมกันทั้ง 4 แห่งไม่

หรือ

จึงเรียนมาเพื่อโปรดทราบและพิจารณาดำเนินการต่อไป

(รองศาสตราจารย์ ดร. ประสาท สิบคำ)

รักษาการแทนรองอธิการบดีฝ่ายวิชาการ

เลขานุการสภาวิชาการ



บันทึกข้อความ
มหาวิทยาลัยเทคโนโลยีสุรนารี

Center for International Affairs	
No.	1832/38
Date	29 Oct 95
Time	12:00
File	

หน่วยงาน..... The Center for Scientific and Technological Equipment. Tel. 6123, 3133
ที่..... Ref.No. 5132/ 1040 วันที่ 21 November 1995
เรื่อง..... Training Period.

Dear Prof. Dr. Umaly.

The training period in Canada for Ms. Warawan Ratanachai in Biological Electron Microscopy and Ms. Boontharica Muangkratoke in Nuclear Magnetic Resonance Spectrometry will be from 9 to 28 April 1996. Please arrange accordingly.

Thank you for your kind attention.

Virul Mangclaviraj
(Virul Mangclaviraj)

Director

Center for Scientific and Technological Equipment.

Wor 23/10/95



SURANAREE UNIVERSITY OF TECHNOLOGY

CENTRE FOR INTERNATIONAL AFFAIRS

111 University Avenue, Muang District, Nakhon Ratchasima , Thailand

Tel. (66.44) 216191-8 Ext. 1156, 1159

Fax : (66.44) 216122 Email : cenintaf @ sura 1. sut. ac. th

Ref. No. 5136/890

15 December, 1995

Ms. Jennifer Sherwood
Ryerson Polytechnic University
350 Victoria street
Ontario, Canada M5 B 2K 2
Fax (416) 979-5352

RE : Prof. Frank Jurankais Consultancy Work

Dear Ms. Sherwood,

We apologise for the delay of the draft contract for Prof. Frank Juranka's consultancy work at SUT because of the WORLDTECH'95. Most of SUT staff and students are working at the site including all administrators. However, the WORLDTECH will be over tomorrow, December 16, 1995. Right after that all personnels and students will return back to their routine. The contract for Prof. Juranka's work will be processed and we will inform you as soon as possible.

With best regards

Dr. Korakod Indrapichate
Assistant Rector for Planning and Development
for The Director, International Affairs

Ref. No. 5136/890

15 December, 1995

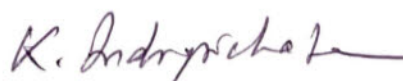
Ms. Jennifer Sherwood
Ryerson Polytechnic University
350 Victoria street
Ontario, Canada M5 B 2K 2
Fax (416) 979-5352

RE : Prof. Frank Jurankais Consultancy Work

Dear Ms. Sherwood,

We apologise for the delay of the draft contract for Prof. Frank Suranka's consultancy work at SUT because of the WORLDTECH'95. Most of SUT staff and students are working at the site including all administrators. However, the WORLDTECH will be over tomorrow, December 16, 1995. Right after that all personnels and students will return back to their routine. The contract for Prof. Juranka's work will be processed and we will inform you as soon as possible.

With best regards



Dr. Korakod Indrapichate
Assistant Rector for Planning and Development
for The Director, International Affairs