



**THE 13th ASIAN CONFERENCE ON OCCUPATIONAL HEALTH
AND
THE 3rd CONFERENCE OF SOUTH-EAST ASIAN ERGONOMICS SOCIETY**

Theme: Role of Occupational Health and Ergonomics in the Development

SCIENTIFIC PROGRAMME

**November 25-27, 1991
Central Plaza Hotel
Bangkok, Thailand**



**THE 13th ASIAN CONFERENCE ON OCCUPATIONAL HEALTH
AND
THE 3rd CONFERENCE OF SOUTH-EAST ASIAN ERGONOMICS SOCIETY**



**NOVEMBER 25-27, 1991
CENTRAL PLAZA HOTEL, BANGKOK, THAILAND.**

Scientific Programme

- Organized by:**
- Asian Association of Occupational Health (AAOH)
 - South-East Asian Ergonomics Society (SEAES)

Technical Supporters:

- World Health Organization (WHO)
- International Labour Organization (ILO)
- International Commission on Occupational Health (ICOH)

Co-organizers:

- Ministry of Public Health
- Department of Occupational Health and Safety,
Faculty of Public Health, Mahidol University
- Office of the National Environment Board
- Bangkok Metropolitan Administration
- Department of Labour, Ministry of Interior
- The Industrial Medicine Association of Thailand
- The Occupational Safety and Health at Work Association
- The Psychiatric Association of Thailand
- The Occupational Health Nursing Association of Thailand
- China Medical Board

CONTENTS

Organizing Committee _____	1
Conference and General Information _____	3
Main Topics of the Conference _____	7
Scientific Programme _____	9
Instruction for Speakers and Chairpersons _____	11
Conference Floor Plan _____	12
Timetable _____	15
Scientific Programme _____	16
Social Programme _____	50
Accompanying Persons Programme _____	51
Thai Online Office _____	53

ACOH/SEAES ORGANIZING COMMITTEE

1

Advisory Committee

- : **Natth Bhamarapravati**
President, Mahidol University
- : **Mukda Trishnananda**
President, Industrial Medicine Association of Thailand
- : **Debhanom Muangman**
Dean, Faculty of Public Health, Mahidol University

ORGANIZING COMMITTEE

Chairman
Vice Chairman
Secretary General
Scientific Programme

- : Malinee Wongphanich
- : Chaiyuth Chawalitnithikul
- : Chalermchai Chaikittiporn
- : Malinee Wongphanich
Udom Ektasaeng
Kovit Satawoot
Narongsak Aungsuvapala
Kitti Indranonth
Supachai Ratanamaneechat
Taweetook Punpeng
Soonthorn Supapong
Pravit Rabieb
- : Chalermchai Chaikittiporn
Yuwadee Chompitak

Treasurer

Registration : Yuwadee Chompitak
Wantanee Pantprasit

Exhibition : Witaya Yoosook

Accommodation & Transportation : Vichai Pruktharathikul

Secretariat Office : ACOH/SEAES Secretariat
c/o C.C.E. (Thailand)
P.O. Box 10-163
Ladphrao, Bangkapi, Bangkok 10310, Thailand
Phone : (66 2) 538-5332
Fax : (66 2) 538-5332

CONFERENCE & GENERAL INFORMATION

Conference Venue

ACOH/SEAES Conference
The Central Plaza Hotel
1695 Phaholyothin Road, Bangkhen
Bangkok 10900, Thailand
Tel: (66 2) 541-1234
Tlx: 20173 CENTRAL TH
Fax: (66 2) 541-1087

Conference Secretariat

ACOH/SEAES Secretariat
c/o C.C.E. (Thailand)
P.O. Box 10-163
Ladphrao, Bangkok 10310
Thailand
Tel. (66 2) 538-5332
Fax: (66 2) 538-5332

Registration

Advanced registration is required. Please complete the attached Registration & Hotel Reservation Form (Form A) and return with the indicated fee to the Conference Secretariat before October 15, 1991.

Delegates	US\$ 450
Accompanying Person	US\$ 250

The registration fee for participants will include participation in all scientific sessions, exhibition, coffee breaks, daily lunches, abstract book and official receptions.

Hotel Accommodation

Accommodation has been reserved at the Central Plaza Hotel conference venue. Alternative accommodation is also available at two other hotels of some distances from the conference site. Free transportation will be arranged to take the participants from the hotels to the conference venue each morning and to return to their hotels in the afternoon. This will be provided for the participants who have made advanced reservations through the Secretariat. Complimentary daily American breakfast is included in the room rate of the two other hotels.

Room Rates

Rates are in US Dollars net (service charge and local taxes are included). Reservation is not valid before receipt of a deposit. For your convenience please fill in and return your Registration Form to the Secretariat before SEPTEMBER 30, 1991. One night room deposit to guarantee your booking is required.

HOTELS	SINGLE	TWIN	TIME TO CONFERENCE	AMERICAN BREAKFAST SERVED
Central Plaza	US.\$140	US.\$150	Venue	-
Ambassador (Sukhumvit wing)	US.\$110	US.\$125	60 minutes	Yes
Eurasia-Mungkorn Hotel	US.\$ 55	US.\$70	30 minutes	Yes

Remarks: First night's deposit will be non-refundable in case of no show.

Payment

Payment must be made in US currency in the form of a bank draft payable to "ACOH/SEAES" and mail to the Conference Secretariat.

Cancellation - Refund

Provided that a written cancellation is received before August 31, 1991, 75% of the paid fees will be refunded. If the cancellation is made between September 1 and 30, 1991, 50% will be refunded. No refund will be made for cancellations made after October 1, 1991. The refund will be processed after the conference.

Official Invitation

If you require an official personal invitation to attend the Conference, please write to the Conference Secretariat. This letter of invitation does not oblige the Organizing Committee to pay travel or any other expenses incurred by the participant.

Exhibition

Scientific and commercial exhibitions related to the conference subjects will be held at the conference site on November 25-27, 1991 during 8.30 to 16.30 hours.

Official Travel Agent

The World Travel Service Ltd. has been appointed as the official conference travel agent. Address : 1053 Charoen Krung Road, Bangkok 10500, Thailand, Tel. 233-2900-9, Fax: (662) 236-7169, Cable Address: WORTRASER.
Booking for other excursions is possible at the official tour desk at the conference site.

Language

The official language of the conference is ENGLISH.

Official Carrier

The Thai Airways International has been designated as the official carrier for the Conference. Enquires and arrangements may be made through your local Thai Airways International offices and travel agencies.

Climate

Generally pleasant and mild with no rain in November. The average temperature is 25°C.

Clothing

For the Opening Ceremony, Cocktail Reception and Banquet, the formal dress or lounge suit is requested.

Currency

The Thai unit of currency is baht, the exchange rate for US dollars is approximately baht 25 to US\$ 1.

Visa

Passengers from most of the countries in transit are eligible for the fifteen day visa free visit to Thailand. Applicants from countries where there are no Thai Embassy may enquire with the Conference Organizing Committee. To make sure, please contact the Thai Embassy or Consulate in your country.

Transportation from the Airport

For the convenience of the delegates, transportation from the airport to the Central Plaza Hotel and other satellite hotels can be provided if required. Please inform your flight number, date and time of arrival to the Secretariat as soon as possible. In any case, the airport bus and limousine service are always available, at the following rate:

Limousine	300 baht/car
Air conditioned coach	120 baht/person

Main Topics of the Conference

1. Keynote Address

- Primary prevention as the main strategy of occupational health.
- Assessment and control of work-related risks: the scope for participatory programmes.
- Medical surveillance of workers and employees: A key for productive workplace.

2. Special Lectures

- Sustainable development and the quality of working life.
- Health surveillance: the key to a productive workplace.
- Occupational ergotoxicology in tropical countries.
- Development of standard for safety and health prevention.

3. Symposium and Final Plenary Session

- Safe use of chemicals at the workplace.
- Failure and success in ergonomics development plan.
- Improving strategies of occupational health for Asian countries.
- Cost-effective solution to occupational health and ergonomics problems at the national and regional levels.

4. Scientific Sessions

- Occupational and work-related diseases.
- Chemical hazards and control.

- Ergonomics and its application.
- Industrial hygiene.
- Occupational health and safety services.
- Pulmonary diseases.
- Women and child labour.
- Education and training.
- Shift work, night work.
- Occupational health nursing.
- Free communications.

5. Scientific Exhibitions

- Poster session.
- Exhibition of instruments.
- Book display.

SCIENTIFIC PROGRAMME

Scientific Sessions:

Scientific Sessions will be held simultaneously in various rooms of the Central Plaza Hotel at the Lobby and Mezzanine levels. Since there were many late applications for papers, the Organizing Committee will make every effort to include these papers for presentations. However, the time allotted will be limited anticipating your co-operation in this time constraint. Presentation time will be 12 minutes for each paper with 3 minutes for discussion.

Abstracts

Abstracts accepted by the Scientific Committee will be published in the abstract text. However, only papers of the registered participants will be included in the final programme.

Technical Equipment

For oral presentation, a projector for 5×5 cm. slides is available. Video presentation equipment for VHS system is available on request.

Size of Posters

Poster size is 100×120 cm.

Certificate of Attendance

Duly registered participants will be given a Certificate of Attendance.

Slide Check-in

Slide check-in will be conducted in the slide check-in room, Horvang Room, mezzanine level.

November 24, 1991 during 13.00 - 18.00 hrs.

November 25-27, 1991 during 7.30 - 18.00 hrs.

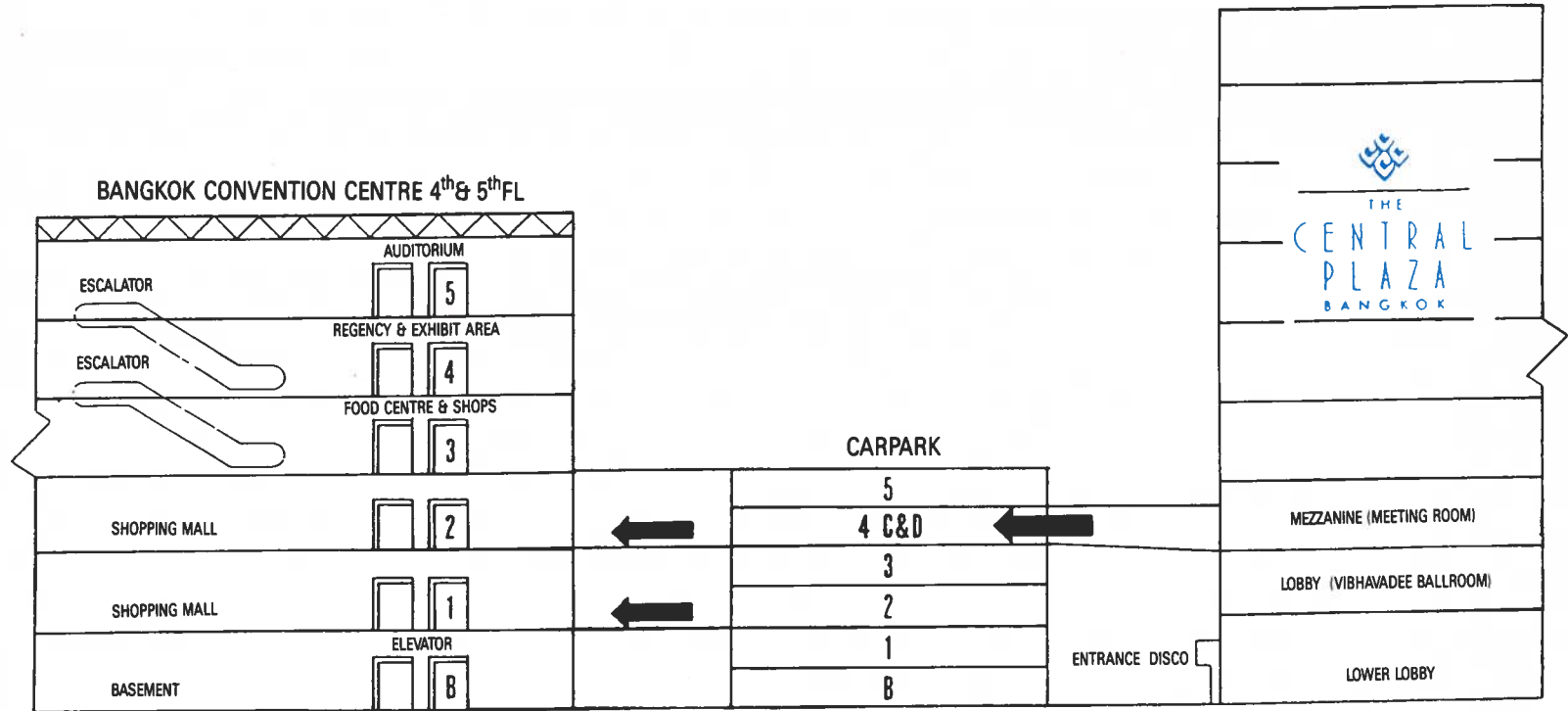
Please check-in your slides at least 3 hours before your presentation. For those presenting in the morning of November 25, please kindly check-in your slides on November 24, during 13.00 - 18.00 hrs.

INSTRUCTIONS FOR SPEAKERS AND CHAIRPERSONS OF SCIENTIFIC SESSIONS

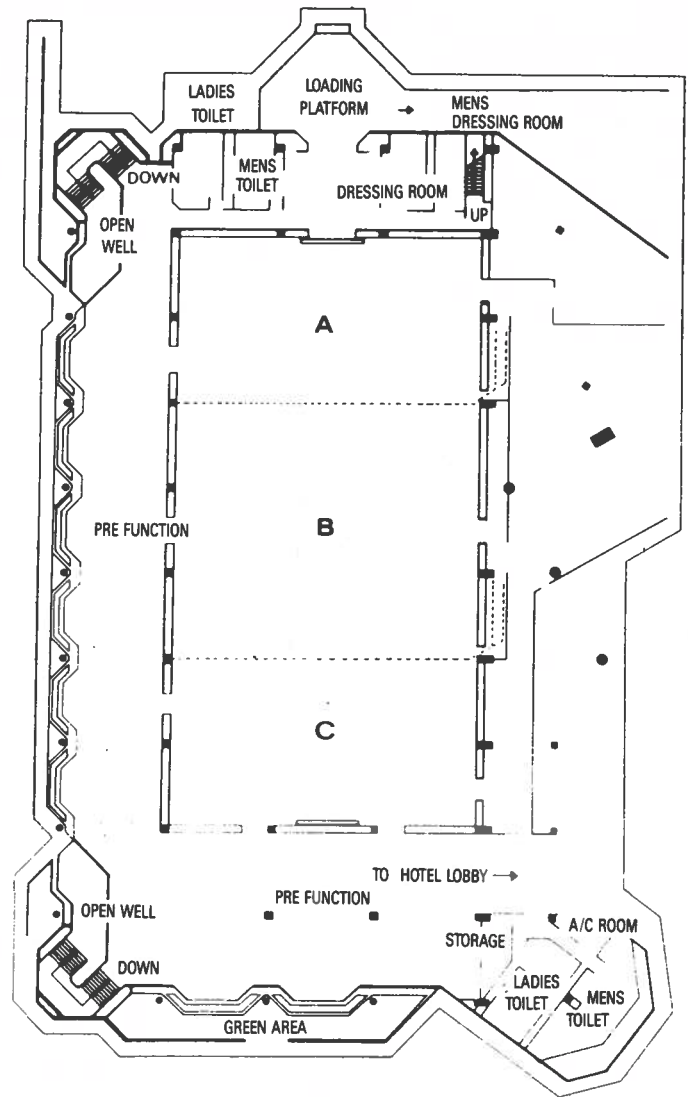
1. All speakers and chairpersons must familiarize themselves with the date, time, and place of their sessions. They must be in their places at least five minutes before the session commences.
2. Each speaker must personally edit his own slides with the assistance of the office slides editors in the Preview Room (Horvang Room, mezzanine level).
3. All slides are to be in 50mm×50mm frames.
4. In order to follow the presentation time schedule, we request that each speaker adheres strictly to the time allocated for presentation.

	Time Allocated	1 st Buzzer	Light On
Paper	12 minutes	10 minutes	12 minutes

5. Slides should be picked up at the Preview Room after the presentation, preferably on the same day and not later than the following day. The Secretariat cannot be responsible for the safety of slides not claimed within this period.
6. Poster Presentation:
Selected papers will be displayed in Phaholyothin Room, mezzanine level during November 25-27. Panel board of 100×120 cm. in size is available for each poster. Please prepare and fasten the posters by yourself on November 24, during 09.00-18.00 hrs.
7. Please bring the manuscript of your paper with you, so that it can be collected and included in the proceedings book to be published after the Conference.



VIBHADEE BALLROOM, LOBBY LEVEL.

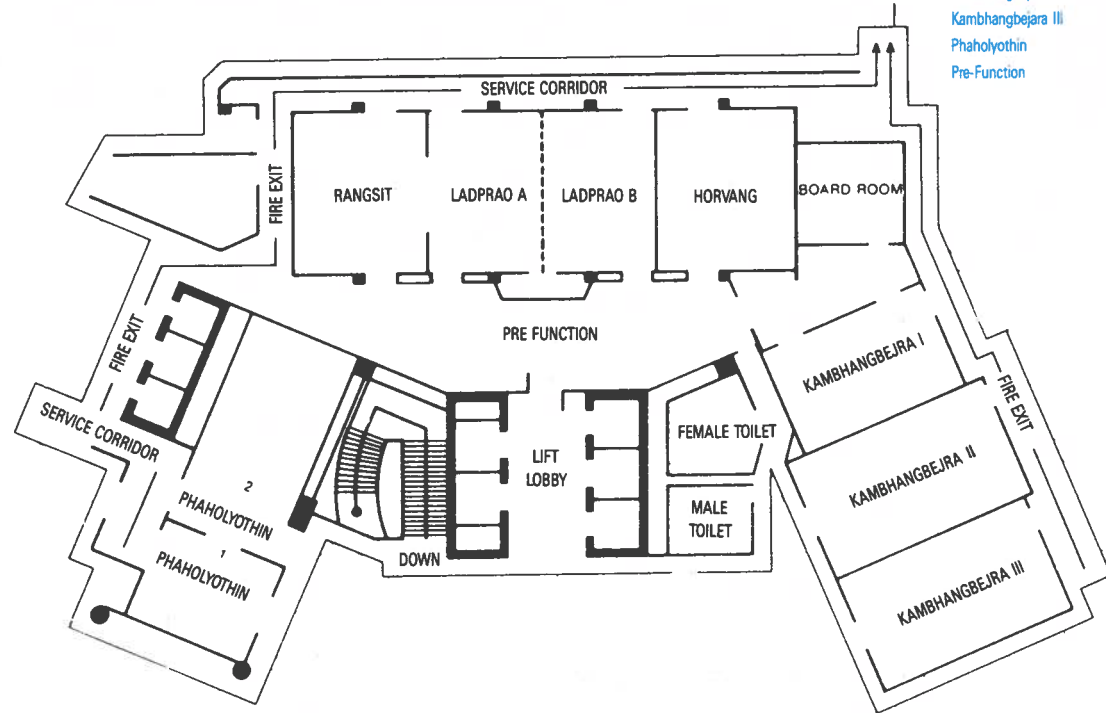


- Vibhavadee A - Buffet Lunch
- Vibhavadee B - Opening Remarks
- Scientific Sessions
- Vibhavadee C - Welcome Reception
- Scientific Sessions
- Vibhavadee B+C - Farewell Party
- Pre-Function - Exhibition Area
- Coffee Break Area
- Registration

MEZZANINE LEVEL

Ladprao Room
 Horvang Room
 Board Room
 Kambhangbejara I
 Kambhangbejara II
 Kambhangbejara III
 Phaholyothin
 Pre-Function

- Registration (Nov.24)
- Scientific Sessions
- Slide Check-in
- Hospitality Room
- Secretariat
- Scientific Sessions
- Scientific Sessions
- Poster Session
- Coffee Break Area



TIME	Sunday, November 24, 1991	Monday, November 25, 1991	Tuesday, November 26, 1991				Wednesday, November 27, 1991	
9.00		Opening Remarks	S.S V Occupational and Work-related Diseases	S.S VI Ergonomics and Its Application	S.S VII Chemical Hazards and Control	S.S VIII Industrial Hygiene	Symposium I "Safe Use of Chemicals at the Workplace"	Symposium II "Failure and Success in Ergonomics Development Plan"
10.30		President's Prize Presentation						
			COFFEE BREAK					
10.45	Council Meeting	Keynote Address: -Primary Prevention as the Main Strategy of Occupational Health -Assessment and Control of Work-related Risks: The Scope for Participatory Programmes -Medical Surveillance of Workers and Employees A key for productive workplace	S.S IX Occupational Health and Safety Services	S.S X Ergonomics and Its Application	S.S XI Pulmonary Diseases	S.S XII Occupational Health Nursing	Symposium "Improving Strategies of Occupational Health for Asian Countries"	
12.00								
			LUNCH					
13.30	Registration	Special Lectures -Sustainable Development and the Quality of Working life -Health Surveillance: the Key to a Productive Workplace -Occupational Ergotoxicology in Tropical Countries -Development of Standard for Safety and Health Prevention	S.S XIII Occupational Health and Safety Services	S.S XIV Ergonomics and Its Application	S.S XV Pulmonary Diseases	S.S XVI Women and Child Labour	Final Plenary Session "Cost-Effective Solution to Occupational Health and Ergonomics Problems at the National and Regional Levels."	
15.00								
			COFFEE BREAK					
15.15		S.S I Occupational and Work-related Diseases	S.S II Ergonomics and Its Application	S.S III Chemical Hazards and Control	S.S IV Industrial Hygiene	S.S V Occupational and Work-related Diseases	CLOSING REMARKS.	
17.00		S.S VI Ergonomics and Its Application	S.S VII Education and Training	S.S VIII Women and Child Labour	S.S IX Shift Work	S.S X Free Communication	Coffee Break	
							Council Meeting	
18.00	Cocktail Reception		General Assembly					
19.00			Farewell Party					

**Theme: Role of Occupational Health
and Ergonomics in the Development**

SESSION MONITORS AND CO-ORDINATORS

M. Wongphanich	(Thailand)
W.L. Hjort	(Thailand (USA))
T. Kawakami	(Japan)
J. Jayavas	(Thailand)
B. Castleman	(USA)
W. Jeungprasert	(Thailand)
P. Chavalitsakulchai	(Thailand)
K. Kantaviroj	(Thailand)

SCIENTIFIC PROGRAMME

MONDAY 25 NOVEMBER 1991:

08:30-10:00	OPENING REMARKS
10:00-10:30	PRESIDENT'S PRIZE PRESENTATION
10:30-10:45	COFFEE BREAK
10:45-12:15	KEYNOTE ADDRESS
12:15-13:30	LUNCH
13:30-15:00	SPECIAL LECTURES
15:00-15:30	COFFEE BREAK
15:30-16:45	SCIENTIFIC SESSIONS I, II, III, IV

TUESDAY 26 NOVEMBER 1991:

09:00-10:30	SCIENTIFIC SESSIONS V, VI, VII, VIII
10:30-10:45	COFFEE BREAK
10:45-12:15	SCIENTIFIC SESSIONS IX, X, XI, XII
12:15-13:30	LUNCH
13:30-15:00	SCIENTIFIC SESSIONS XIII, XIV, XV, XVI
15:00-15:15	COFFEE BREAK
15:15-16:45	SCIENTIFIC SESSIONS XVII, XVIII, XIX, XX

WEDNESDAY 27 NOVEMBER 1991:

09:00-10:30	SYMPOSIA I, IIA
10:30-10:45	COFFEE BREAK
10:45-12:15	SYMPOSIA IIB, III
12:15-13:30	LUNCH
13:30-15:00	FINAL PLENARY SESSION
15:00-15:15	CLOSING REMARKS
15:15-15:30	COFFEE BREAK

DAY 1		MONDAY 25 NOVEMBER 1991				
8.30	OPENING REMARKS					
10.00 10.30	PRESIDENT'S PRIZE PRESENTATION					
		Coffee Break				
10.45 12.15	KEYNOTE ADDRESS					
		LUNCH				
13.30 15.00	SPECIAL LECTURES					
		Coffee break				
15.15	KAMBHANGBEJARA II	KAMBHANGBEJARA III	LADPRAO	VIBHAVADEE B	PHAHOLYOTHIN	
	Scientific	Scientific	Scientific	Scientific	Poster Session	
16.45	Session I	Session II	Session III	Session IV		

DAY 1**MONDAY 25 NOVEMBER 1991**

08:30-10:00
 10:00-10:30
 10:30-10:45
 10:45-12:15
 12:15-13:30
 13:30-15:00
 15:00-15:15
 15:15-16:45

OPENING REMARKS
 PRESIDENT'S PRIZE PRESENTATION
 COFFEE BREAK
 KEYNOTE ADDRESS
 LUNCH
 SPECIAL LECTURES
 COFFEE BREAK
 SCIENTIFIC SESSIONS I, II, III, V

VIBHADEE C

08:30-10:00 OPENING REMARKS
 10:00-10:30 President's Prize Presentation
 10:30-10:45 Coffee Break

VIBHADEE B

10:45-12:15 KEYNOTE ADDRESS

Chair :	U. Sudsukh	(Thailand)
	: A. Manuaba	(Indonesia)

10:45-11:15 (A115) "Primary prevention as the main strategy of occupational health"
 M. Mikheev (WHO)

11:15-11:45 (A124) "Assessment and control of work-related risks: the scope for participatory programmes"
 K. Kogi (ILO)

11:45-12:15 (A108) "Medical surveillance of workers and employees: A key for productive workplace"
 J.F. Caillard (ICOH)

12:15-13:30 Lunch

REMEMBER THAT YOU ARE IN ASIA

DAY 1 MONDAY 25 NOVEMBER 1991

VIBHAVADEE B

13:30-15:00

SPECIAL LECTURES

Chair : J.C. Kothari

(India)

: A. Wisner

(France)

13.30-14.00 (A126) - Maintaining quality in working life

by: W.O. Phoon (Australia)

14.00-14.20 (A53) - Occupational ergotoxicology in tropical countries

by: A. Wisner (France)

14.20-14.40 (A127) - Development of standard for safety and
health prevention

by: B. Ziegenfuss (Germany)

14.40-15.00 (A130) - Safe work in a safe world

by: M. Boggs (Belgium)

15.00-15.15

COFFEE BREAK

REMEMBER THAT YOU ARE IN ASIA

DAY 1 MONDAY 25 NOVEMBER 1991

ROOM A: KAMBHANGBEJARA II

15:15-16:45

SCIENTIFIC SESSION I

OCCUPATIONAL AND WORK-RELATED DISEASES

Chair : R. Mahathevan (Malaysia)
 : B. Reverente (Philippines)

- 15:15-15:30 (A4) - Low back pain in industrial workers of Bucheon and Kimpo area
 by: Y.H. Cheon (Korea)
- 15:30-15:45 (A10) - Body dehydration on exposure to industrial heat
 by: T. Husain (India)
- 15:45-16:00 (A11) - Occupational heat illnesses among glass bangle workers
 by: S. Srivastava (India)
- 16:00-16:15 (A18) - An analysis of hearing acuity of industrial workers of rural and urban origin
 by: S.B. Deshmukh (India)
- 16:15-16:30 (A21) - Tinnitus in noise exposed workers
 by: W.H. Phoon (Singapore)
- 16:30-16:45 (A64) - Benign ano-rectal diseases in employees of a steel plant
 by: G.N. Sahu (India)

REMEMBER THAT YOU ARE IN ASIA

ROOM B: KAMBHANGBEJARA III

15:15-16:45

SCIENTIFIC SESSION II
ERGONOMICS AND ITS APPLICATION

- | | | | |
|-------------|--|-------------|---|
| Chair : | T. Ohkubo | (Japan) | X |
| | : K. Indranonth | (Thailand) | X |
| 15:15-15:30 | (A131) - Participatory ergonomic improvements at the workplace
by: A. Manuaba | (Indonesia) | X |
| 15:30-15:45 | (A1) - Occupational hazard and biomechanical evaluation in the diamond polishing industry
by: I. Gilad | (Israel) | |
| 15:45-16:00 | (A42) - How to evaluate visual work-load in VDT operations by analysis of eye movements
by: S. Saito | (Japan) | X |
| 16:00-16:15 | (A41) - Ergonomic evaluation of working environments and visual fatigue using physiological indices
by: S. Taptagaporn | (Japan) | X |
| 16:15-16:30 | (A16) - Vocational rehabilitation of upper extremity amputees using low cost modifications to terminal devices of upper limb prosthesis
by: S. Sunder | (India) | |
| 16:30-16:45 | (A25) - Strategies in ergonomics for industrially developing countries
by: J. Abeysekera | (Sweden) | X |

REMEMBER THAT YOU ARE IN ASIA

DAY 1 MONDAY 25 NOVEMBER 1991

ROOM C: LADPRAO

15:15-16:45

SCIENTIFIC SESSION III**CHEMICAL HAZARDS AND CONTROL**

Chair : F.S. He (China)
: B.J. Singh (Malaysia)

- 15:15-15:30 (A7) - Neurotoxic risks from occupational exposure to chemical substances in Germany
by: G. Triebig (Germany)
- 15:30-15:45 (A8) - Psychological aberrations among workers exposed to industrial chemicals
by: B.N. Gupta (India)
- 15:45-16:00 (A12) - Risk factors of development of delayed encephalopathy following acute carbon monoxide poisoning
by: F.S. He (China)
- 16:00-16:15 (A23) - The in vitro inducibility of cytochromes P448 by polybrominated biphenyls and 1, 2-benzanthracene
by: P.P. Yao (China)
- 16:15-16:30 (A35) - Suppression of neurotoxicity of ammonia by L-carnitine
by: M. Matsuoka (Japan)
- 16:30-16:45 (A146) - Blood cholinesterase levels among workers in a pesticide formulating plant
by: M.D. Renales (Philippines)

REMEMBER THAT YOU ARE IN ASIA

ROOM D: VIBHADEE B

15:00-16:45

SCIENTIFIC SESSION IV

INDUSTRIAL HYGIENE

- Chair : A. Iskandar (Indonesia)
 : C. Chaikittiporn (Thailand)
- 15:15-15:30 (A3) - Noise induced hearing loss among Singapore's industries
 by: S.E. Lee (Singapore)
- 15:30-15:45 (A5) - Control of dusts for small ceramic, glazed and clay tile factories
 by: G.Q. Liu (China)
- 15:45-16:00 (A15) - An investigation on the radioactivity level of the workshops in a ceramic tile plant (Hubei, China)
 by: Q.X. Zeng (China)
- 16:00-16:15 (A30) - Work environment status of cement industry in the Philippines
 by: M.L. Buelva (Philippines)
- 16:15-16:30 (A54) - Respirated carbon monoxide loads in Karachai roadside workers
 by: J.M. Patrick (Pakistan)
- 16:30-16:45 (A68) - An occupational health study in the textile industries in Malaysia
 by: G.L. Tan (Malaysia)

REMEMBER THAT YOU ARE IN ASIA

ROOM E: PHAHOLYOTHIN

15:15-16:30

POSTER SESSION I

Chair : K. Rampal

(Malaysia)

: P. Rabieb

(Thailand)

15:15-15:30 (A13)

- Problems of safety at work and health protection in the presence of biological agents used in the research laboratories of the Italian national research council
by: S. Romano (Italy)

15:30-15:45 (A22)

- Clean air at the workplace
by: R. Liu

(Germany)

15:45-16:00 (A24)

- Dust hazards in cotton spinning industries
by: Wong T.L.

(Hong Kong)

16:00-16:15 (A27)

- Death structure of Japanese iron and steel workers
by: A. Matsuo

(Japan)

16:15-16:30 (A97)

- Cardiovascular reaction on work in various working time in the groups of women; shop attendants and cashiers

by: C. Palczynski

(Poland)

16:30-16:45 (A153)

- Burnout among the staff nurses in Ramathibodi Hospital
by: S. Summawart

(Thailand)

REMEMBER THAT YOU ARE IN ASIA

DAY 2	TUESDAY 26 NOVEMBER 1991				
9.00	KAMBHANGBEJARA II	KAMBHANGBEJARA III	LADPRAO	VIBHADEE C	PHAHOLYOTHIN
10.30	Scientific Session V	Scientific Session VI	Scientific Session VII	Scientific Session VIII	Poster Session II
Coffee Break					
10.45	KAMBHANGBEJARA II	KAMBHANGBEJARA III	LADPRAO	VIBHADEE C	PHAHOLYOTHIN
12.15	Scientific Session IX	Scientific Session X	Scientific Session XI	Scientific Session XII	Poster Session III
LUNCH					
13:30	KAMBHANGBEJARA II	KAMBHANGBEJARA III	LADPRAO	VIBHADEE C	
15:00	Scientific Session XIII	Scientific Session XIV	Scientific Session XV	Scientific Session XVI	
Coffee Break					
15:15	KAMBHANGBEJARA II	KAMBHANGBEJARA III	LADPRAO	VIBHADEE C	
16:45	Scientific Session XVII	Scientific Session XVIII	Scientific Session XIX	Scientific Session XX	

DAY 2

09:00-10:30
 10:30-10:45
 10:45-12:15
 12:15-13:30
 13:30-15:00
 15:00-15:15
 15:15-16:45

TUESDAY 26 NOVEMBER 1991

SCIENTIFIC SESSION V, VI, VII, VIII
 COFFEE BREAK
 SCIENTIFIC SESSIONS IX, X, XI, XII
 LUNCH
 SCIENTIFIC SESSIONS XIII, XIV, XV, XVI
 COFFEE BREAK
 SCIENTIFIC SESSIONS XVII, XVIII, XIX, XX

ROOM A: KAMBHANGBEJARA II**09:00-10:30****SCIENTIFIC SESSION V****OCCUPATIONAL AND WORK-RELATED DISEASES**

Chair : M. Trishnananda (Thailand)
 : T. Ohta (Japan)

- 09:00-09:15 (A79) - Offshore accidents on the oil rigs in the Java Sea and their relationships to certain factors
 by: A Prayitno (Indonesia)
- 09:15-09:30 (A82) - Factors associated with sexually transmitted diseases among prostitutes in Singapore
 by: T.C. Tan (Singapore)
- 09:30-09:45 (A118) - Occupational health hazards and preventive aspects in welding
 by: R.C. Panjwani (India)
- 09:45-10:00 (A87) - Health status of nurses in Ramathibodi Hospital
 by: M. Lerdmaleewong (Thailand)
- 10:00-10:15 (A88) - Prevention of occupational diseases by poly (A D P-Ribose) - Polymerase-Modulators
 by: H. Altmann (Austria)
- 10:15-10:30 (A98) - Working conditions, alcohol consumption and hypertension among Japanese workers
 by: M. Ishizaki (Japan)

10:30-10:45**Coffee Break****REMEMBER THAT YOU ARE IN ASIA**

ROOM A: KAMBHANGBEJARA II

10:45-12:15

SCIENTIFIC SESSION IX

OCCUPATIONAL HEALTH AND SAFETY SERVICES

Chair : J.F. Caillard (France)

: U. Ektasaeng (Thailand)

10:45-11:00 (A26) - Occupational health in the petroleum industry: Bahrain refinery 1980-1990
by: J.J. O'Donnell (Bahrain)

11:00-11:15 (A36) - PP2BS as parameter for diabetes screening in an engineering industry
by: R. Parikh (India)

11:15-11:30 (A69) - Health examination of workers
by: M. Tanaka (Japan)

11:30-11:45 (A45) - I'm not wanted anymore
by: J. Cottee (Australia)

11:45-12:00 (A17) - Occupational health activities in Viet Nam
by: L.V. Trung (Viet Nam)

12:00-12:15 (A136) - Psychosocial problems for the role of occupational health services
by: S. Tiong-Aquino (Philippines)

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

ROOM A: KAMBHANGBEJARA II

13:30-15:00

SCIENTIFIC SESSION XIII

OCCUPATIONAL HEALTH AND SAFETY SERVICES

Chair : J.J. O'Donnell (Bahrain)

: L. Pelzman (Austria)

- 13:30-13:45 (A20) - The role of occupational health services in relation to psychosocial problems at the workplace
by: W.H. Phoon (Singapore)
- 13:45-14:00 (A81) - The Australian nuclear science and technology organisation occupational health and safety program
by: J. Grey (Australia)
- 14:00-14:15 (A86) - Regional occupational health and safety program of rhone-poulenc agrochimie-far east
by: J. Springall (Philippines)
- 14:15-14:30 (A46) - Activities of the health control division of the occupational safety and health center
by: F.T. Castro (Philippines)
- 14:30-14:45 (A113) - Transfer of technology and safety organisation in Malaysia
by: A. Wangel (Denmark)
- 14:45-15:00 (A128) - Driving and health
by: K.G. Rampal (Malaysia)

15:00-15:15

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM A: KAMBHANGBEJARA II

15:15-16:45

SCIENTIFIC SESSION XVII

EDUCATION AND TRAINING

- Chair : D. Wright (UK)
 : S. Shindell (USA)
- 15:15-15:30 (A6) - A unique method of training occupational health professionals
 by: S. Shindell (USA)
- 15:30-15:45 (A133) - Occupational health training in the Asia-Pacific region
 by: W.O. Phoon (Australia)
- 15:45-16:00 (A44) - The age of technology
 by: J. Cottee (Australia)
- 16:00-16:15 (A89) - Experiences with a curriculum on occupational health at Korean universities
 by: A. Tietzi (Germany)
- 16:15-16:30 (A75) - Study of occupational health educational needs and discrepancies among the Thai workers
 by: T. Kawakami (Japan)
- 16:30-16:45 (A122) - Training programme on chemical exposure and health hazards for investigation purpose
 by: S. Wongwanich (Thailand)

REMEMBER THAT YOU ARE IN ASIA

ROOM B: KAMBHANGBEJARA III

09:00-10:30

SCIENTIFIC SESSION VI
ERGONOMICS AND ITS APPLICATION



Chair : K. Saito

(Japan)

: C.N. Ong

(Singapore)

09:00-09:15 (A132) - Health impacts on computer technology

by: C.N. Ong

(Singapore)

09:15-09:30 (A80) - Improving visual, mental and muscular loading in liquid crystal display, cathode-ray tube, and computer-aided design applications

by: M. Miyao

(Japan)

09:30-09:45 (A31) - Musculoskeletal load of the firefighters during heavy tool-handling

by: S. Lusa

(Finland)

09:45-10:00 (A32) - Toward a successful technology transfer in industrialising countries: Some sociological considerations for ergonomists

by: C. Rubio

(Philippines)

10:00-10:15 (A39) - An improved safety feature of AGV

by: S. Nanthavanij

(USA)

10:15-10:30 (A40) - On normalization of inter-personnel differences in muscle fatigue test

by: S. Nanthavanij

(USA)

10:30-10:45

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM B: KAMBHANGBEJARA III

10:45-12:15

SCIENTIFIC SESSION X

ERGONOMICS AND ITS APPLICATION

Chair : Y. Seo

(Korea)

: K. Vanwonterghem

(Belgium)

10:45-11:00 (A134) - Occupational cervicobrachial disorder resulting from automatization and computerization at work
by: T. Itani (Japan)

11:00-11:15 (A49) - The introduction of ergonomics in the EGAT: an example of ergonomics utilization in occupational health in Asian industrially developing countries
by: K. Chaikul (Thailand)

11:15-11:30 (A51) - A model of ergonomics intervention at work: case study in Japan
by: P. Chavalitsakulchai (Thailand)

11:30-11:45 (A67) - Occupational health problems among typist - A questionnaire survey
by: T.S. Ignatius (Hong Kong)

11:45-12:00 (A100) - Heart rate variability and task performance in type A's during mental workload
by: T. Kamada (Japan)

14:30-14:45 (A102) - Job redesign for elderly workers in a quarry industry
by: T. Hasigawa (Japan)

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

DAY 2 TUESDAY 26 NOVEMBER 1991

ROOM B: KAMBHANGBEJARA III

13:30-15:00

SCIENTIFIC SESSION XIV

ERGONOMICS AND ITS APPLICATION

- Chair : T. Itani (Japan)
 : C. Chawalitnithikul (Thailand) ✓
- 13:30-13:45 (A2) - The importance of ergonomics in plastic surgery
 by: D. Falcao (UK)
- 13:45-14:00 (A103) - A role of ergonomics in occupational health - An example of the relation between pain, posture and productivity
 by: M. Kumashiro (Japan)
- 14:00-14:15 (A105) - A study on unsuitableless of middle-aged workers
 by: H. Hirao (Japan) ✓
- 14:15-14:30 (A106) - Determining the threshold values of fuzzy critical flicker frequency
 by: Y. Seo (Korea) ✓
- 14:30-14:45 (A157) - Ergonomic in aircraft design
 by: I. Birowo (Indonesia)

15:00-15:15

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM B: KAMBHANGBEJARA III

15:15-16:45

SCIENTIFIC SESSION XVIII

WOMEN AND CHILD LABOUR

Chair : K.H. Meng (Korea)
: R. Parekh (India)

- 15:15-15:30 (A55) - Health risks related to shift work in female manufacturing industrial workers in Korea
by: K.H. Meng (Korea)
- 15:30-15:45 (A91) - Total health promotion plan and living attitude
by: M. Matsumoto (Japan)
- 15:45-16:00 (A63) - Women's work adaptability to the visual information procession work
by: K. Mikami (Japan)
- 16:00-16:15 (A99) - Menstrual cycle effects on VDU simulation task: Cognitive indices, physiological measurements, and subjective ratings
by: C. Nakatani (Japan)
- 16:15-16:30 (A104) - Socio-psychological research for female workers in "high-technology" society
by: M. Matsui (Japan)
- 16:30-16:45 (A52) - Evaluation of breast self-examination beliefs using the multiattribute utility model
by: M. Salazar (USA)

REMEMBER THAT YOU ARE IN ASIA

DAY 2 TUESDAY 26 NOVEMBER 1991

ROOM C: LADPRAO

09:00-10:15

SCIENTIFIC SESSION VII

CHEMICAL HAZARDS AND CONTROL

Chair : M. Harada (Japan)

: R. Frentzel-Beyme (Germany)

09:00-09:15 (A59) - Occupational health hazard evaluation at NIOSH

by: S. Galson (USA)

09:15-09:30 (A129) - Diagnosis of chemical intoxication at the workplace

by: W.O. Phoon (Australia)

09:30-09:45 (A116) - Cadmium distribution in organs after a long-term oral administration of cadmium

by: K. Matsuno (Japan)

09:45-10:00 (A119) - The possible role of organic solvents in occupational cancer risk related to irreversible central nervous effects

by: R. Frentzel-Beyme (Germany)

10:00-10:15 (A60) - Chemical disaster at Klong Toey Warehouse

by: J. Jayavasu (Thailand)

10:15-10:30 (A48) - Major hazards control approach of the department of industrial works, Thailand

by: P. Boonyuanugroha (Thailand)

10:30-10:45

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM C: LADPRAO

10:45-12:15

SCIENTIFIC SESSION XI

PULMONARY DISEASES

Chair : S.Galson (U.S.A)

: S. Supamong (Thailand)

- 10:45-11:00 (A66) - Current status of pulmonary tuberculosis in developing countries
by: J.C. Kothari (India)
- 11:00-11:15 (A33) - Assessment of incidence of "Tea Asthma" in tea blending industry
by: V.K. Shetty (India)
- 11:15-11:30 (A19) - Pathological observation on 3 siderosis cases of rust-removing workers
by: C. Zou (China)
- 11:30-11:45 (A14) - The extent of pneumoconioses in Viet Nam measures of prevention and control
by: L.V. Trung (Viet Nam)
- 11:45-12:00 (A37) - Prevalence of chest diseases among auxillary shop to employees in an engineering industry
by: R. Parikh (India)

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

ROOM C: LADPRAO**13:30-15:00****SCIENTIFIC SESSION XV****PULMONARY DISEASES**

Chair : R.C. Panjwani

(India)

: W.L. Hjort

(Thailand (USA))

13:30-13:45 (A47) - A prevalence study of pneumoconiosis in four industrial establishments

by: S. Yu-Sison

(Philippines)

13:45-14:00 (A62) - Chest radiological changes by the continuity of exposure to welding fumes in welders lung

by: H.S. Son

(Korea)

14:00-14:15 (A38) - Occupational history and pulmonary asbestos content among malignant mesothelioma patients

by: N. Hisanaga

(Philippines)

14:15-14:30 (A90) - A study on serum prolyl hydroxylase activity in pneumoconiosis

by: M. Tabata

(Japan)

14:30-14:45 (A148) - A 6-year follow-up study of a group of workers exposed to cotton dust in Samutprakarn

by: C. Chaikittiporn

(Thailand)

15:00-15:15**Coffee Break****REMEMBER THAT YOU ARE IN ASIA**

ROOM C: LADPRAO

X 1

15:15-16:45

**SCIENTIFIC SESSION XIX
SHIFT WORK, NIGHT WORK**

- Chair : M. Tati (Japan)
 : C. Karpilow (USA)
- 15:15-15:30 (A28) - Shift work effects on sleep and general health and modification of those effects with forced light exposure
 by: C. Karpilow (USA)
- 15:30-15:45 (A29) - Modification of jet lag symptomatology in employees who travel
 by: C. Karpilow (USA)
- 15:45-16:00 (A96) - Cardiovascular response to work with various physical and psychical workload in women
 by: A. Bortkiewicz (Poland)
- 16:00-16:15 (A101) - Effects of work loads on two-shift workers
 by: T. Murakami (Japan)
- 16:15-16:30 (A85) - Health consequences of shift work among staff nurses in university hospitals
 by: P. Ramasoota (Thailand)
- 16:30-16:45 (A94) - Factors related to the disturbance in life and work of shift workers in a motorcycle factory
 by: T.T. Khai (Viet Nam)

REMEMBER THAT YOU ARE IN ASIA

ROOM D: VIBHADEE C

09:00-10:15

SCIENTIFIC SESSION VIII

INDUSTRIAL HYGIENE

Chair : Y. Kodama

(Japan)

: T. Punpeng

(Thailand)

09:00-09:15 (A70) - Cold storage work and environment

by: M. Tanaka

(Japan)

09:15-09:30 (A74) - Legal basis for workplace-safety and environmental protection - According measuring methods

by: M. Hery

(Germany)

09:30-09:45 (A112) - Circadian rhythms in the urinary excretion of heavy metal and organic substances in "healthy" men in relation to renal excretory mechanism: Fundamental study for the biological monitoring

by: H. Aono

(Japan)

09:45-10:00 (A65) - The relationship between casual of working environment, working condition and health status of rice-mill workers, Nongjog district, Bangkok

by: P. Rabieb

(Thailand)

10:00-10:15 (A121) - Occupational diseases complicated by diseases caused by environmental pollution

by: M. Harada

(Japan)

10:15-10:30 (A154) - Alteration of working environment environment by new technology and health hazards

by: K. Nakaaki

(Japan)

10:30-10:45

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM D: VIBHADEE C

10:45-12:00

SCIENTIFIC SESSION XII

OCCUPATIONAL HEALTH NURSING

Chair : J. Cottee (Australia)
: M.K. Salazar (USA)

- 10:45-11:00 (A83) - The occupational health nursing education in Thailand
by: P. Rabieb (Thailand)
- 11:00-11:15 (A84) - The nurses' role and function in the factories in Samootprakarn, Nondhaburi and Pratoomdhani Province
by: P. Kasiwat (Thailand)
- 11:15-11:30 (A95) - Industrial nurses educational background and opinions on their role and job performance
by: U. Chawalitnithikul (Thailand)
- 11:30-11:45 (A93) - The effectiveness of occupational health services in industry
by: N. Thanthadsakul (Thailand)
- 11:45-12:00 (A117) - Industrial managers' needs on nurses' potentialty
by: C. Wongcharoen (Thailand)
- 12:00-12:15 (A155) - An education strategy for occupational health nurses
by: N. Bundle (Australia)

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

ROOM D: VIBHADEE C

13:30-15:00

SCIENTIFIC SESSION XVI
WOMEN AND CHILD LABOUR

Chair : S.S. Bhutada (India)
 : T. Kawakami (Japan)

- 13:30-13:45 (A76) - Prevalence of occupational health problems of the working women in brick kiln industries in India
 by: S.S. Bhutada (India)
- 13:45-14:00 (A43) - Occupational health hazards in women and pregnancy outcomes
 by: R. McAbee (USA)
- 14:00-14:15 (A50) - Stress at work and life situation among female industrial workers: A psychosocial study related to musculoskeletal disorders
 by: P. Chavalitsakulchai (Thailand)
- 14:15-14:30 (A9) - Health status and socio-economic conditions of children engaged in unorganised industries in India
 by: S.K. Rastogi (India)
- 14:30-14:45 (A135) - General situation of working children in Asia: The health and safety aspects
 by: P. Boonpala (Thailand)
- 14:45-15:00 (A92) - Development of a model for health promotion of child labour in industries through cooperation between government and non-government organizations
 by: T. Punpeng (Thailand)

15:00-15:15

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM D: VIBHADEE C

15:15-16:45

SCIENTIFIC SESSION XX

FREE COMMUNICATIONS

Chair : S. Tiong-Aquino (Philippines)
: S. Ratanamaneechat (Thailand)

- 15:15-15:30 (A77) - Industrial dermatoses
by: S. Prunglampoo (Thailand)
- 15:30-15:45 (A78) - Method of cutaneous impairment and disability assessment
by: S. Prunglampoo (Thailand)
- 15:45-16:00 (A120) - Retrospective analysis of reportable accidents during 1983-85 among telco employees at Jamshedpur
by: K.D. Pandey (India)
- 16:00-16:15 (A107) - A case control study of mental illness in a petrochemical plant
by: N. Tokui (Japan)
- 16:15-16:30 (A147) - Prediction of temporary threshold shift induced by noise exposure
by: A. Ito (Japan)
- 16:30-16:45 (A158) - Incidence rate of alcoholic consumption in seven occupations of Surin Province :
A psychosocial indication of rural area
by : V. Poshyachinda (Thailand)

REMEMBER THAT YOU ARE IN ASIA

DAY 2 TUESDAY 26 NOVEMBER 1991

ROOM E: PHAHOLYOTHIN

09:00-10:30

POSTER SESSION II

- Chair : S. Saito (Japan)
 : P. Chawalitsakulchai (Thailand)
- 09:00-09:15 (A56) - Fuzzy diagnosis and its application to hyperlipidemia
 by: H. Kawabata (Japan)
- 09:15-09:30 (A57) - Fuzzy diagnosis and its application to diabetes mellitus
 by: K. Furuki (Japan)
- 09:30-09:45 (A58) - Fuzzy inference and its application to the automated multiphasic health testing
 by: T. Asaeda (Japan)
- 09:45-10:00 (A114) - Worker involvement: a key tool for improving occupational health program
 by: P. Chandravana (Thailand)
- 10:00-10:15 (A123) - Ergonomic factors of health and work quality of automatic control system specialists
 by: Y. Egorov (USSR)
- 10:15-10:30 (A15) - An investigation on the radioactivity level of the workshops in a ceramic tile plant (Hubei Province, China)
 by: Q.X. Zeng (China)

10:30-10:45

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

DAY 2 TUESDAY 26 NOVEMBER 1991

ROOM E: PHAHOLYOTHIN

10:45-12:15

POSTER SESSION III

Chair : K. Sakai (Japan)

: W. Jeungprasert (Thailand)

10:45-11:00 (A34) - An integrated approach to the teaching of occupational health and safety
by: G. Bates (Australia)

11:00-11:15 (A71) - Relationship between N-hexane exposure and urinary 2, 5-hexanedione in shoe and bag manufacturers
by: I. Saito (Japan)

11:15-11:30 (A72) - Airborne asbestos types, concentrations and size distributions at construction work sites
by: K. Sakai (Japan)

11:30-11:45 (A73) - The amounts of exposure to halogenated hydrocarbons by different routes
by: M. Sotoyama (Japan)

11:45-12:00 (A90) - A study on serum prolyl hydroxylase activity in pneumoconiosis
by: M. Tabata (Japan)

12:00-12:15 (A107) - A case control study of mental illness in a petrochemical plant
by: N. Tokui (Japan)

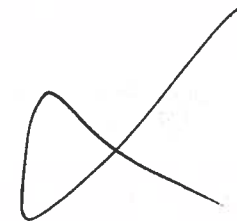
12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

DAY 3	WEDNESDAY 27 NOVEMBER 1991	
9.00	VIBHADEE B	VIBHADEE C
10.15	Symposium I	Symposium IIA
	Coffee Break	
10.30	VIBHADEE B	VIBHADEE C
12.15	Symposium III	Symposium IIB
	LUNCH	
13:30	VIBHADEE B	
15:00	Final Plenary Session	
15:15	CLOSING REMARKS	
15:30	Coffee Break	

09:00-10:15 SYMPOSIA I, IIA
10:15-10:30 COFFEE BREAK
10:30-12:15 SYMPOSIA IIB, III
12:15-13:30 LUNCH
13:30-15:00 FINAL PLENARY SESSION
15:00-15:15 CLOSING REMARKS
15:15-15:30 COFFEE BREAK



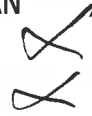
ROOM A: VIBHADEE C

09:00-10:15

SYMPOSIUM IIA

FAILURE AND SUCCESS IN ERGONOMICS DEVELOPMENT PLAN

Chair : S. Horino (Japan)
: R. Sen (India)



09:00-09:15 (A137) - Introduction: Review of ergonomics contribution to the improvement of working conditions and environment

by: S. Horino (Japan)



09:15-09:30 (A138) - Possibility for ergonomic application in small-scale fishery

by: T. Kawakami (Japan)

09:30-09:45 (A139) - Features of ergonomic interventions in small scale enterprises with concrete results

by: K. Kishida (Japan)

09:45-10:00 (A140) - Ergonomics interventions: Some cases studies in Singapore

by: C.N. Ong (Singapore)



10:00-10:15 (A141) - Factory: Some cases of failure in ventilation system

by: H. Jonai (Japan)

10:15-10:30

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

ROOM A: VIBHADEE C

10:30-12:15

SYMPOSIUM IIB

FAILURE AND SUCCESS IN ERGONOMICS DEVELOPMENT PLAN

Chair : K. Satawoot (Thailand)

: J.G. Fox (Luxemburg)

10:30-10:45 (A142) - Ergonomic problems of visual information displays for office tasks
by: S. Saito (Japan)10:45-11:00 (A143) - Failure and success in ergonomics development
by: A. Manuaba (Indonesia)11:00-11:15 (A144) - [To be announced]
by: R. Sen (India)11:45-12:00 (A145) - An ergonomic approach for the prevention of road traffic accidents
by: S. Horino (Japan)11:15-11:30 (A149) - Role of ergonomics for the quality of working life
by: K. Vanwonderghem (Belgium)11:30-11:45 (A150) - The exploitation of ergonomics results
by: J.G. Fox (Luxemburg)

12:00-12:15 Open Discussion and Conclusion

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

ROOM B: VIBHADEE B

09:00-10:15

SYMPOSIUM I

SAFE USE OF CHEMICALS AT THE WORKPLACE

Chair : S. Krobert (Germany)
: B.I. Castleman (USA)

09:00-09:15 (A159) - Strategy for the prevention of occupational cancer caused by chemicals

by: T. Matsushima (Japan).

09:15-09:30 (A109) - Managing to control the exportation of industrial hazards

by: B.I. Castleman (USA)

09:30-09:45 (A61) - Do people have the right to know?

by: J. Jayavasu (Thailand)

09:45-10:00 (A151) The 90's : chemical safety in New South Wales

by: U. St. George (Australia)

10:00-10:15 - Open Discussion

10:15-10:30

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

DAY 3 WEDNESDAY 27 NOVEMBER 1991

ROOM B: VIBHAVADEE B

10:30-12:15

SYMPOSIUM III

IMPROVING STRATEGIES OF OCCUPATIONAL HEALTH FOR ASIAN COUNTRIES

Chair : W.O. Phoon (Australia)

: W.H. Phoon (Singapore)

10:30-11:45

"Asian country reports on occupational health (5 examples)"

(10:30-10:45)

- Report of China

(F.S. He)

(10:45-11:00)

- Report of India

(R. Parekh)

(11:00-11:15)

- Report of Japan

(K. Saito)

(11:15-11:30)

- Report of Philippines

(B. Reverente)

(11:30-11:45)

- Report of Thailand

(N. Aungkasuvapala)

11:45-12:15

Open Discussion and Conclusion

12:15-13:30

Lunch

REMEMBER THAT YOU ARE IN ASIA

ROOM B: VIBHADEE B

13:30-15:00

FINAL PLENARY SESSION

COST-EFFECTIVE SOLUTION TO OCCUPATIONAL HEALTH AND ERGONOMICS PROBLEMS AT THE NATIONAL AND REGIONAL LEVELS

Chair : M. Mikheev

(WHO)

X

: M. Wongphanich

(AAOH)

X

13:30-13:50

- Practical cost-effective solution to occupational health and ergonomics problems at the country level

by: B.R. Reverente

(AAOH, Philippines)

13:50-14:10

- Occupational health: improving strategies for Asian countries

by: W.O. Phoon

(Australia)

W.H. Phoon

(Singapore)

14:10-14:30

- Industrial ergonomics: improving strategies for Asian countries

by: S. Horino

(Japan)

R. Sen

(India)

14:30-15:00

- Open Discussion and Conclusion

15:00-15:30

CLOSING REMARKS

15:30-15:45

Coffee Break

REMEMBER THAT YOU ARE IN ASIA

SOCIAL PROGRAMME

Sunday, November 24, 1991

18.30

WELCOME RECEPTION

A Welcome Reception at Vibhavadee Ballroom, Central Plaza Hotel will give you an opportunity to meet new friends, and re-union with good old friends.

Monday, November 25, 1991

08.30

OPENING REMARKS

Tuesday, November 26, 1991

19.00

FAREWELL PARTY

A memorable climax to the meeting as you bid farewell to old and new friends. Enjoy cocktail, dinner and watch lively performance by Thai classical dancers. Official guests will be invited and presentation of Certificate of Appreciation will follow.

Wednesday, November 27, 1991

15.00

CLOSING REMARKS

ACCOMPANYING PERSON'S PROGRAMMES (Optional Tour)

ROYAL GRAND PALACE TOUR

07:30-12:00 & 12:30-17:00 hrs/Daily

US.\$ 18

Visit Royal Grand Palace and go through the dazzling Wat Phra Kaew with its revered Emerald Buddha, Golden Chedi and Pantheon of Kings.

VIMANMEK PALACE TOUR

09:00-12:00 & 13:30-17:00 hrs/Daily

US.\$ 12

Visit the magnificent golden teakwood residence of King Chulalongkorn, Vimanmek, which has only recently been restored and opened to the public. Exhibits include photographs taken during his reign, antique furniture, glassware, porcelain, and many other historic items.

DAMNERSADUAK & ROSE GARDEN TOUR

06:30-17:00 hrs/Daily

US.\$ 34

Visit the rural floating market at Damnernsaduak, with a stop at Nakorn Pathom where the largest Pagoda in Thailand is located. Then proceed on to lunch at Rose Garden. Attend the cultural show at the Thai Village in Rose Garden.

AYUTHAYA AND RETURN BY ORIENTAL QUEEN**US.\$ 44**

06:30-17:00 hrs/Daily

Depart the hotel for visit of the ruins of Ayuthaya and the summer palace at Bang Pa-In. Then board the Oriental Queen boat cruising down the river to Bangkok.

CITY & TEMPLE TOUR**US.\$ 16**

07:30-12:00 & 12:30-17:00 hrs/Daily

Bangkok City Tour, visit include its major temple - The Temple of the Golden Buddha, the Temple of Reclining Buddha in Wat Po and and the magnificent Marble Temple.

THAI SILK AND GEMS FACTORY**US.\$ 14**

09:00-12:00 & 13:30-17:00 hrs/Daily

This fascinating tour takes you to a major Thai Silk Factory where the manufacturing process from cocoon to loom can be seen and where you will be able to buy this legendary fabric directly from the place it's made. Then on to a principal gem lapidary to watch precious stones, including Thailand's renowned rubies and blue sapphires, being cut, polished and delicately set. Seeing this intricate process, you won't be surprised that Bangkok is not of the world's major gem centres.

Remark: Rate of exchange is US.\$ 1 = 25 Baht.

THAI ONLINE OFFICES

AMSTERDAM, THE NETHERLANDS
SINGEL 466-468, 3RD FLOOR
1017 AW AMSTERDAM, THE NETHERLANDS.
ADM : (020)625-0907
RSVN/TKT : (020)622-1877
FAX : (020)620-3969. TLX : 14141 THAI NL.

ATHENS, GREECE
45 VAS. SOFIAS AVE., 1ST FLOOR
ATHENS 10676, GREECE.
TEL : (01)724-9315/9. FAX : (01)721-9260.
TLX : 223389 THAI GR.

AUCKLAND, NEW ZEALAND
1ST FLOOR, KENSINGTON SWAN BUILDING
22 FANSHAWE STREET, P.O. BOX 4559
AUCKLAND1, NEW ZEALAND
TEL : (09)770-268. RSVN : (09)773-886.
FAX : (09)798-597. TLX : NZ60018 THAI.
A/P OFC : (09)275-0588. FAX : (09)256-0274.

BANDAR SERI BEGAWAN, BRUNEI
SUITES 401-403, 4TH FLOOR, KOMPLEKS
JALAN SULTAN, 51-55 JALAN SULTAN
BANDAR SERI BEGAWAN 2085, NEGARA
BRUNEI DARUSSALAM. TEL : (02)240-723
SALES : (02)242-993. RSVN : (02)242-991/2
FAX : T/O (02)242-871. A/P (02)330-782.

BANGKOK, THAILAND
HEAD OFFICE
89 VIBHAVADI RANGSIT ROAD
BANGKOK 10900, THAILAND.
TEL : (02)513-0121.

***SILOM OFFICE**
485 SILOM ROAD BANGKOK 10500, THAILAND.
TEL : (02)234-3100/19. RSVN : (02)233-3810.
FAX : (02)235-3646.

***LARN LUANG OFFICE**
6 LARN LUANG ROAD BANGKOK 10100,
THAILAND. TEL : (02)280-0090/110.
RSVN : (02)280-0070/80. FAX : (02)280-0735.

***CHARN ISSARA OFFICE**
4TH FLOOR CHARN ISSARA TOWER
BANGKOK 10500, THAILAND.
TKT : (02)235-4588, 235-4595, 235-4657.
FAX : (02)236-7895.

***ASIA HOTEL OFFICE**
296 PHYATHAI ROAD BANGKOK 10400,
THAILAND. TEL : (02)215-2020/1.
FAX : (02)215-4360.

***PATTAYA OFFICE**
ROYAL CLIFF BEACH HOTEL PATTAYA,
CHONBURI 20260, THAILAND.
TEL : (038)429-286/7, 423-804.
FAX : (038)428-511.

***YAOWARAJ OFFICE**
45 ANUWONG ROAD BANGKOK 10100,
THAILAND. TEL : (02) 224-9602/6.
FAX : (02)235-3646.

**BEIJING (PEKING) PEOPLE'S
REPUBLIC OF CHINA**
22 JIANGUO MINWEI, NOBLE TOWER
ROOM 207-209, OPPOSITE
FRIENDSHIP STORE, BEIJING100004,
PEOPLE'S REPUBLIC OF CHINA.
TEL : (86)512-3881/3. FAX : (86)512-3880.

BRISBANE, AUSTRALIA
4TH FLOOR 145 EAGLE STREET, BRISBANE
QUEENSLAND 4000, AUSTRALIA.
RSVN : (07)832-2778. TKT/ROH : (07)832-4722.
FAX : (07)832-2782.

CALCUTTA, INDIA
18 G, PARK STREET, CALCUTTA 700071
WEST BENGAL, INDIA.
TEL : (033)299-846/49, 293-633,
298-926, 293-632.
FAX : (033)298-926. TLX : 0217502 SKTG.

CHIANG MAI, THAILAND
240 PRAPOKKLAO ROAD, AMPHOE MUANG
CHIANG MAI 50000, THAILAND.
TEL : (053)210-042, 211-541,
RSVN : (053)210-043/5, 211-044/7,
TKT : (053)210-041. A/P : (053) 277-782,
277-640, 277-515. FAX : (053)210-042.

COLOMBO, SRI LANKA
HOTEL CEYLON INTERCONTINENTAL
48, QUEENS STREET, COLOMBO 1,
SRI LANKA. SALES : (01), 438050, 438055
RSVN : (01)438051/3. TKT : (01)438894/5
FAX : (01)438055.

COPENHAGEN, DENMARK
16 RAADHUSPLADSEN, 4TH FLOOR, DK-1550
COPENHAGEN V, DENMARK.
TEL : (33)320-566, 119-185. TKT : 155-152
FAX : (33)133-212. TLX : 22342 THAINT DX.

DELHI, INDIA
*TKT/RSVN/SALES OFFICE
12A CONNAUGHT PLACE, NEW DELHI 110001,
INDIA. TKT/RSVN : (11)332-3608, 332-3668,
332-0436, 332-7668, 332-4704, 332-7761.
SALES : (11)332-4558, 332-7346, 332-4078.

*ADMIN/ACCOUNTS OFFICE
3RD FLOOR, "HANSALAYA" BUILDING
15 BARAKHAMBIA ROAD NEW DELHI 110001,
INDIA. TEL : (11)331-4795, 331-4769.
FAX : (11)331-6351.

DAHHRAN, SAUDI ARABIA
TG/ALMOJIL TRAVEL AGENCY, 28TH STREET
PEPSI-COLA ROAD, P.O. BOX 1624
ALKHOBAR 31952, DAHHRAN, SAUDI ARABIA
TEL : (03)864-7624, 864-8055, 895-3996,
895-0500, 895-4111. FAX : (03)898-3779.

DHAKA, BANGLADESH
HOTEL DHAKA SHERATON, MINTO ROAD
DHAKA, BANGLADESH.
RSVN : (02)834-711/20. FAX : (02)832984

FRANKFURT, GERMANY
KENNEDYALLEE 93, 2ND FLOOR
D-6000 FRANKFURT/MAIN 70, GERMANY
ADM : (069)631-3093/4
RSVN : (069)630-00 410. FAX : (069)631-2061.
A/P : (069)690-70931. TLX : 416-145 THAI D

HANOI, VIETNAM
25 TRANG THI STREET HANOI, VIETNAM.
TEL : (04)53842.

HAT YAI, THAILAND

*166/4 NIPHAT UTHIT 2 ROAD HAT YAI,
SONGKHLA 90110, THAILAND.
TEL : (074)245-851/2, 243-711,
246-165, 233-433.
*190/6 NIPHAT UTHIT 2 ROAD HAT YAI,
SONGKHLA 90110, THAILAND.
TEL : (074)231-272, 232-392,
230-446, 244-282. A/P : (074)246-487.
FAX : (074)232-392.

HO CHI MINH CITY, VIETNAM

116 NGUYEN HUE STREET HO CHI MINH CITY,
VIETNAM. TEL : (08)92118.

HONG KONG

*122-124 WORLD WIDE PLAZA
19 DES VOEUX ROAD, CENTRAL, HONG KONG.
TEL : (852)525-7051.
*24TH FLOOR, UNITED CENTRE QUEENSWAY,
HONG KONG. ADM : (852)529-5681/8.
RSVN : (852)529-5601/9. FAX : (852)865-4121.
TLX : 76726 HKGTG HX

*TKT OFFICE

SHOP NO. 105-106, OMNI HONG KONG HOTEL
3 CANTON ROAD, KOWLOON, HONG KONG.
TEL : (852)730-9225. FAX : (852)735-8551.

JAKARTA, INDONESIA

B.D.N. BUILDING, M.H. THAMRIN NO.5 J1,
P.O. BOX 1193 JAKARTA 10340, INDONESIA.
RSVN : (021)320-607. TKT : (021)330-816,
325176/7, 330943. FAX : (021)333-396.
TLX : 46998 THAI INTRA.

KAOSHIUNG, TAIWAN

THAI AIRWAYS INTERNATIONAL LTD.
9TH FLOOR, 282 CHUNG-HUA, 4TH ROAD
KAOSHIUNG, TAIWAN.
RSVN : (07)251-5871. FAX : (07)251-4081.

KARACHI, PAKISTAN

THAI AIRWAYS INTERNATIONAL LTD.
HOTEL METROPOLE, CLUB ROAD
KARACHI, PAKISTAN. TEL : (21)515-893/97,
519-660, 519-540, 515-895. FAX : (21)511-513.

KATHMANDU, NEPAL

ANNA PURNA ARCADE, PALACE ROAD
DURBAR MARG, KATHMANDU, NEPAL.
TEL : (01)224-917, 224-387.
RSVN : (01)223-565. FAX : (01)221-130.

KUALA LUMPUR, MALAYSIA

GROUND FLOOR, BANGUNAN KUWASA,
5 JALAN RAJA LAUT, KUALA LUMPUR 50350
MALAYSIA. TEL : (03)293-7133
RSVN : (03)293-7100. FAX : (03)292-3078.

LANGKAWI, MALAYSIA

C/O MALAYSIAN AIRLINES MAIN LOBBY
LANGKAWI ISLAND RESORT
JALAN PANTAI DATO, SYED OMAR
07000 LANGKAWI, MALAYSIA.
TEL : (04)788-622

LONDON, UNITED KINGDOM

41 ALBEMARLE STREET,
LONDON W1X 3FE, UNITED KINGDOM.
TEL : (071)491-7953. RSVN : (071)499-9113.
FAX : (071)409-1463. TLX : 21491.

LOS ANGELES, U.S.A.

1960 E. GROUND AVE., SUITE 1030
EL SEGUNDO, CALIFORNIA 90245, U.S.A.
TEL : (213)640-0097. FAX : (213)640-8202.

MADRID, SPAIN

PRINCIPE DE VERGARA, 185
28002 MADRID, SPAIN.
TEL : (01)411-6157/60. RSVN : (01)411-6411.
FAX : (01)564-5620. TLX : 45094.

MANILA, PHILIPPINES

COUNTRY SPACE 1 BUILDING
SEN GILJ PUYAT AVE. MAKATI, METRO.
P.O. BOX 354 MANILA, PHILIPPINES.
ADM : (632)818-8231, 810-6117, 817-5442,
RSVN : (632)818-8221. FAX : (632)817-4044,
A/P : (632)384-0366/8.

MELBOURNE, AUSTRALIA

8TH FLOOR, 60 MARKET STREET
MELBOURNE, VIC 3000, AUSTRALIA.
TEL : (03)629-1681.
RSVN : (03)614-8100, 629-6132.
FAX : (03)614-1805. TLX : AA 152243 THAI TG.

MUNICH, GERMANY

THOMAS-WIMMER-RING/HERRNSTRASSE 11
D-8000 MUENCHEN 22, GERMANY.
TEL : (089)290-0160. FAX : (089)228-3402.

MUSCAT, SULTANATE OF OMAN

BAHWAN TRAVEL AGENCIES LLC.
P.O. BOX 282, MUSCAT,
SULTANATE OF OMAN. TEL : (-)704-455,
707-838. RSVN : (-)705-934. TLX : 3778 ON.
FAX : (-)700-483.

NAGOYA, JAPAN

SOUTH HOUSE 9F, 6-29 NISHIKI 3-CHOME
NAKA-KU NAGOYA 460, JAPAN.
TKT : (052)963-8589. RSVN : (052)963-8585.
ADM : (052)963-8582. FAX : (052)963-8584.

OSAKA, JAPAN

SUMITOMO SEIMEI YODOYABASHI BUILDING
1-21 KITAHAMA 4-CHOME CHUO-KU
OSAKA 541, JAPAN.
RSVN : (06)202-5161. TKT : (06)202-5470.
FAX : (06)202-4758. FAX : 651538 THAI F.

PARIS, FRANCE

23 AVENUE DES CHAMPS ELYSEES
75008 PARIS, FRANCE
TEL : (01)44 20 70 15. RSVN : (01)44 20 70 80
TKT : (01)44 20 70 70. FAX : (01)44 20 70 49.

PENANG, MALAYSIA

WISMA CENTRAL, 41 MACALISTER ROAD,
10400 PENANG, MALAYSIA
TEL : (04)366-233. FAX : (04)371-731.

PERTH, AUSTRALIA

4TH FLOOR, CITY MUTUAL BUILDING
CAPITA CENTRE, 5 MILL STREET
WEST AUSTRALIA 6000, AUSTRALIA.
TEL : (09)322-5088. FAX : (09)322-5039.
TLX : 94984.

PHUKET, THAILAND

*4133 MONTREE ROAD, AMPHOE MUANG
PHUKET 83000, THAILAND.
TEL : (076)212-400, 212-644, 212-880,
212-855. FAX : (076)216-779.
A/P (076)311-144, 311-246.
*78/1 RANONG ROAD, AMPHOE MUANG
PHUKET 83000, THAILAND. TEL : (076)211-195,
212-499, 212-946, 216-678, 216-755.

RIYADH, SAUDI ARABIA

THAI AIRWAYS INTERNATIONAL LTD
ABANUMAY, COMMERCIAL CENTER
GROUND FLOOR 16TH STREET,
P.O. BOX 50453 RIYADH 11523, SAUDI ARABIA.
TEL : (01)476-6776, 476-6736,
476-7453, 476-7364.

ROME, ITALY

VIA BARBERINI 50, 00187, ROMA, ITALY.
TEL : (06)482-4051. RSVN : (06)482-6669,
463-527, 465-214. FAX : (06)474-6449.
TLX : 622570 THAI I.

SEATTLE U.S.A.

*720 OLIVE WAY, SUITE 1400, SEATTLE
WASHINGTON 98101, U.S.A
TEL : (800)426-5204. RSVN : (206)467-0600.
FAX : (206)467-8461.

*TKT OFFICE

720 OLIVE WAY MAIN FLOOR, SEATTLE
WASHINGTON. 98101, U.S.A
TEL : (206)467-9898. FAX : (206)467-8461.
TLX : 51060/2387 THAI SEACARGO.

SEOUL, KOREA

WOOJIN AIR SERVICES LTD./GSA, 2ND FLOOR
CHOSUN HOTEL, 87 SOKONG-DONG, CHUNG-KU,
C.P.O. BOX 4489, SEOUL, KOREA.
ADM : (02)752-5120. TKT : (02)779 2621/5.
RSVN : (02)754 9980/5.

SINGAPORE, SINGAPORE

133 CECIL STREET 08-01, KECK SENG TOWER
SINGAPORE 0106, SINGAPORE.
TEL : (65)224-2011. RSVN : (65)224-9977.
TKT : (65)224-2024. FAX : (65)223-9005.
TLX : 22011 THAI AS.

STOCKHOLM, SWEDEN

KUNGSATAN 64, 3RD FLOOR, S-111 22
STOCKHOLM, SWEDEN. ADM : (08)796-0047.
RSVN : (08)247-415. SALES : (08)723-1420.
FAX : (08)240-982. TLX : 11076 THAI S.

SYDNEY, AUSTRALIA

*75-77 PITT STREET 4-10 FLOORS,
P.O. BOX 7077, SYDNEY
NEW SOUTH WALES 2000 AUSTRALIA
TEL : (02)251-1063. FAX : (02)252-3880.

*TKT OFFICE

56 PITT STREET, SYDNEY
NEW SOUTH WALES 2000, AUSTRALIA.
TEL : (02)251-1922. RSVN : (02)251-1722.
ROH/RSVN : (02)251-1055.

TAIPEI, TAIWAN

150 FUSHING NORTH ROAD, 2ND FLOOR
TAIPEI 10440, TAIWAN.
TEL : (02)715-2766. RSVN : (02)715-4622.
FAX : (02)712-9801. TLX : 13634 THAINTER.

TOKYO, JAPAN

ASAHI SEIMEI HIBIYA BUILDING, 5-1 YARAKU-CHO
1-CHOME, CHIYODA-KU, TOKYO 100, JAPAN
RSVN : (03)3503-3311. TKT : (03)3503-3324,
FAX : (03)3593-0759.

TORONTO, CANADA

THE ATRIUM ON BAY, SUITE 1133
11TH FLOOR, 20 DUNDAS STREET WEST
TORONTO, ONTARIO M5G2C2, CANADA.
ADM : (416)971-5181. RSVN : (416)971-7907
FAX : (416)971-7915.

VIENNA, AUSTRIA

PRINZ-EUGEN-STRASSE 10, A-1040
VIENNA, AUSTRIA. TEL : (0222)650-9773,
650-351. FAX : (0222)505-1448. TLX : 112289.

VIENTIANE, LAOS

2, RUE PANGHANG VIENTIANE BP 119, LAOS.
TEL : (-)2094.

YANGON, UNION OF MYANMAR

441/445 MAHABANDoola ROAD
DAWEI HOUSE, YANGON, UNION OF MYANMAR.
ADM : (01)75167. RSVN : (01)75988, 75936,
85006, 85068. FAX : (01)89564.

ZURICH, SWITZERLAND

BAHNHOFSTRASSE 67/SIHLSTRASSE 1
CH 8001, ZURICH, SWITZERLAND.
ADM : (01)212-3201. FAX : (01)212-3409.
RSVN /TKT : (01)212-2512. FAX : (01)212-3408.
TLX : 816194. A/P (01)816-4323. FAX : (01)816-4434.



NOTE

NOTE

NOTE