



**PROCEEDINGS
OF
10TH ASIAN CONGRESS OF PHARMACEUTICAL SCIENCES**

NOVEMBER 19~25, 1984

TAIPEI, TAIWAN, REPUBLIC OF CHINA

THE FEDERATION OF ASIAN PHARMACEUTICAL ASSOCIATIONS

PROCEEDINGS
OF
10TH ASIAN CONGRESS OF PHARMACEUTICAL SCIENCES

NOVEMBER 19~25, 1984

TAIPEI, TAIWAN, REPUBLIC OF CHINA

中国、台湾台北出版



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THE FEDERATION OF ASIAN PHARMACEUTICAL ASSOCIATIONS

PREFACE

In the 1982 Seoul FAPA Congress, we were so glad that Taipei was selected as the site for the 10th Asian Congress of Pharmaceutical Sciences. The preparation of the 1984 FAPA Congress started upon the Chinese delegates' return to Taipei. The Organizing Committee was composed of the selected members of the Pharmaceutical Society of Republic of China, the Pharmacists' Association of Republic of China, Taiwan Provincial Pharmacists' Association as well as Taipei City and Kao-Hsiung City Pharmacists' Associations. Many meetings held from time to time, the Organizing Committee was in a good position to make final plans for the Congress.

Following the theme of the 1984 FAPA Congress: "Advanced Pharmacy for Promotion of Health", the Congress was well prepared by setting lectures and discussion given by specialists in their fields of study in pharmaceutical sciences, while the time would find the group broken into sections characterized by their interests in our pharmacy profession.

The 10th Asian Congress of Pharmaceutical Sciences, sponsored by the Federation of Asian Pharmaceutical Associations (FAPA), was held in the City of Taipei, Taiwan, Republic of China from November 19 to 25, 1984. The FAPA was founded in 1964. It was meaningful for us to celebrating the 20th Anniversary of our Federation on the occasion of Taipei FAPA Congress. We are proud that our attendance of more than thousand registrants from twelve Asian member countris to attend the Congress, and also many from different corners of the world. The vote as the success of the Congress should be left to those who attended. I believe the Organizing Committee has a right to feel that the event was a success if the large number of verbal expressions spread among the attendance is a criterion.

On behalf of the Organizing Committee of 1984 FAPA Congress, I would like to express my sincere thanks to those who made this event the success it was. Any success at the Congress was due to the close co-operation of our FAPA member countries as well as full support of Dr. Lourdes T. Echaz, President of the Federation of Asian Pharmaceutical Associations. Especial thanks to His Excellency, the Vice-President of the Republic of China, Dr. Lee Teng-Hui, His Excellency, the Minister of Interior, Mr. Wu Po-Hsiung, and the honorable Dr. Ti-Yuan Lee, Deputy Director General of the Department of Health for their attendance and giving message to our group. I would like also to extend my thanks to the honorable Mr. A. Bédar, President of Fédération Internationale Pharmaceutique (F.I.P.) for his participation and message.

The final thanks go to the governmental organizations, pharmacy schools and institutions, pharmaceutical factories and companies, without whose help the program could not have been realized; to our Organizing Committee for their co-operation in carrying out all assignments, which resulted in bringing this Congress to a successful close. In addition, I would like to thank Prof. Dr. Kuang-Chao Wang, whose editorial talents helped bring this Proceedings to fruition.

In closing we believe that this Proceedings may be served as a record of achievement in the pharmaceutical study of our Asian Colleagues in recent two years and also as the results of implementation on resolutions made by the previous Asian Congress of Pharmaceutical Sciences.

Yun-Tao Sun
Chairman, The Organizing Committee of
1984 FAPA Congress

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<i>Honorary President:</i>	Prof. Jose P. B. Gallardo
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<i>General Secretary:</i>	Dr. Milagros P. Ocampo, Philippines

The Federation of Asian Pharmaceutical Associations (FAPA) was founded in 1964. It has Headquarters and Secretariat in Manila, Philippines.

The 10th Asian Congress of Pharmaceutical Sciences, arranged by the FAPA and the Organizing Committee of 10th Asian Congress of Pharmaceutical Sciences, took place in Taipei, Taiwan, Republic of China, November 19 to 25, 1984.

FEDERATION OF ASIAN PHARMACEUTICAL ASSOCIATIONS

SECTIONS

SCIENTIFIC SECTION

Chairman:

Dr. Yuh-Lin Chen

Republic of China

Moderator:

Symposium I

Dr. Chi-Ming Chen

Republic of China

Symposium II

Dr. Oliver Y. P. Hu

Republic of China

Symposium III

Ms. An-Rong Lee

Republic of China

Section Meeting

Dr. Chi-Ming Chen

Republic of China

Co-Chairman:

Dr. Chung-Hsiung Chen

Republic of China

Rapporteur:

Symposium I

Mr. Shao-Wen Sun

Republic of China

Symposium II

Miss Man-Ling Ho

Republic of China

Symposium III

Miss Churn-Shiouh Gau

Republic of China

Section Meeting

Mr. Shao-Wen Sun

Republic of China

MARKETING SECTION

Chairman:

Mr. Jong Sun Choi

Korea

Moderator:

Mr. T. M. Chen

Republic of China

Co-Chairman:

Mr. Feng-Ming Chang

Republic of China

Rapporteur:

Ms. Shelline Huang

Republic of China

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Chairmen:

Dr. Pakdee Pothisiri (Absent)

Thailand

Co-Chairman:

Dr. Weng-Foung Huang

Republic of China

Dr. Weng-Foung Huang (Acting)

Republic of China

Moderator:

Ms. Sherry Hsing-Tau Li

Republic of China

Rapporteur:

Mr. Ying-Chun Chang

Republic of China

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Chairman

Dr. Dong Suk Lee

Korea

Co-Chairman:

Mr. Chiou-Sheng Liu

Republic of China

Moderator:

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Rapporteur:

Ms. Ling-Ying Liao

Republic of China

PUBLIC HEALTH SECTION

Chairman:

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Japan

Co-Chairman:

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Republic of China

Moderator:

Ms. Mei-Ling Hsiao Lai

Republic of China

Rapporteur:

Ms. Sypyng Jon

Republic of China

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Dr. Ryohei Hori

Japan

Co-Chairman:

Dr. Russel R. L. Chen

Republic of China

Moderator:

Ms. Felin Lin

Republic of China

Rapporteur:

Ms. Gau-Tze Chen

Republic of China

PHARMACOPEIA AND PHYTOPHARMACY SECTION

Chairman:

Dr. Jesusa A. Concha

Philippines

Co-Chairmen:

Mr. Ik Soo Han

Korea

Moderator:

Prof. Wu-Lung Wu
Republic of China

Dr. Ming-Lu King
Republic of China

Rapporteur:

Dr. Chiao-Hsi Chiang
Republic of China

MILITARY PHARMACY AND EMERGENCY SECTION

Chairmen:

Col. Dr. Djoko Santoso (Absent)
Indonesia

Dr. Ping-Hong Chung (Acting)
Republic of China

Co-Chairman:

Dr. Ping-Hong Chung
Republic of China

Moderator:

Dr. Oilver Y. P. Hu
Republic of China

Rapporteur:

Ms. An-Rong Lee
Republic of China

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Korea

Co-Chairman:

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Republic of China

Moderator:

Miss I-Chiou Chen
Republic of China

Rapporteur:

Miss Au-Ch Feng
Republic of China

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Dr. Kuo-Tung Chen
Republic of China

Moderator:

Dr. Chi-Ming Chen
Republic of China

Rapporteur:

Dr. Kuang-Yang Hsu
Republic of China

ORGANIZING COMMITTEE OF 1984 FAPA CONGRESS

Office: School of Pharmacy, National Taiwan University
1, 1st Section, Jen-Ai Road, Taipei
Taiwan, Republic of China
Cable Address: FAPATC

The Organizing Committee of the 10th Asian Congress of Pharmaceutical Sciences is organized jointly by the following Chinese Pharmaceutical Organizations:

The Pharmaceutical Society of Republic of China
The Pharmacists' Association of Republic of China
The Taiwan Provincial Pharmacists' Association
The Taipei City Pharmacists' Association
The Kao-Shiung City Pharmacists' Association

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		Mr. Shih-Hsien Chang	張世憲理事長
		Dr. Tzeng-Fu Chen	陳增福理事長
		Mr. Kwen-Jen Wu	吳寬仁理事長
		Mr. Pou-Fu Chang	張博夫理事長 (前任)
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<i>General Secretary</i>	:	Mr. Ming-Tao Lin	林明道處長
<i>Vice General Secretaries</i>	:	Mr. K. C. Chen	陳寬墀先生
		Dr. Russel Rhei-Long Chen	陳瑞龍教授
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<i>Program Section</i>	: Chairman:	Mr. K. C. Chen 陳寬墀
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Prof. Dr. T. H. Yang 楊藏雄
Mr. S. S. Yeh 葉水石
Mr. S. D. Yei 俞松德
Dr. K. Y. Yen 顏焜熒
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FAPA ORDINARY MEMBERS

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2. The Pharmaceutical Society of Hongkong
P.O. Box 1298
Hongkong
President: Mr. Raymond S.H. Poon
3. Korean Pharmaceutical Association
Same Yeong Building
#549, Bang Bae 2-Dong
Kang Nan-Ru, Seoul, Korea
President: Mr. Byang Jun Kil
4. Pakistan Pharmacist Association
P.O. Box 1129
Lahore, Pakistan
President: Mr. Naim A. Muzaffar
5. Japan Pharmaceutical Association
Nagai Memorial House
12-15-701 Shibuya, 2-Chome
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President: Dr. Prof. Keijiro Takagi
6. The Pharmaceutical Association of Thailand
40 Sukumvit Road 38
Bangkok 11, Thailand
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5th Floor, Cardinal Building
cor. F. Agoncillo & Pedro Gil.
Paco, Manila
President: Dr. Lourdes T. Echauz
8. Ikatan Sardjana Farmasi Indonesia
c/o Kimia Farma
Jalan Budi Utomo No. 1
Jakarta, Indonesia
President: Drs. Soekaryo
9. The Pharmaceutical Society of Singapore
c/o Alumni Medical Centre
4 A College Road, Singapore 0016
President: Mr. Thia Siow Khee
10. Malaysian Pharmaceutical Society
Persatuan Farmasi Malaysia
P.O. Box 158, Jalan Sultan
Petaling Jaya, Selangor
West Malaysia
Tel: 03-780407
President: Dr. R. Alagaratnam
11. The Indian Pharmaceutical Association
Kalina, Santa Cruz (East)
Bombay 400 029
Phone 6122401
President: Dr. Ajit Shirodkar
12. Pharmaceutical Society of Australia
10th Floor, Canberra House
Marcus Clarke St.
P.O. Box 456
Canberra City, ACT 2601
President: Mr. Nelson Hunt Sharp

GENERAL PROGRAM OF 1984 FAPA CONGRESS

November 19, Monday

8:30—20:00 Registration at the Asiaworld Plaza Hotel
100, Tun Hwa North Road, Taipei
8:30— 9:30 Bureau Meeting and breakfast (VIP Room, 1st Floor)
10:30—11:30 Visit Chiang Kai-Shek Memorial Hall (Bureau members)

November 20, Tuesday

8:30—20:00 Registration at the Asiaworld Plaza Hotel
10:00—12:00 OPENING CEREMONY at Dr. Sun Yat-Sen Memorial Hall
505 Jen-Ai Road, 4th Section, Taipei

PROCESSIONAL
NATIONAL ANTHEM OF
THE REPUBLIC OF CHINA

INTRODUCTION OF THE
HONORABLE GUEST

VICE-PRESIDENT'S MESSAGE

OPENING ADDRESS

PRESENTATION OF
DELEGATES

MESSAGES

INTRODUCTION OF THE
GUEST SPEAKER

NATIONAL P.S. BAND

DR. YUN-TAO SUN
Chairman, Organizing Committee
1984 FAPA Congress

HIS EXCELLENCY DR.
LEE TENG-HUI
Vice President
Republic of China

DR. LOURDES T. ECHAUZ
President, Federation of Asian
Pharmaceutical Associations

DR. YUN-TAO SUN
Chairman, Organizing Committee
1984 FAPA Congress

MR. MING-TAO LIN
Secretary General, Organizing
Committee 1984 FAPA Congress

HIS EXCELLENCY WU PO-
HSIUNG
Minister, Ministry of Interior
Republic of China

MR. A. BÉDAT
President
Fédération Internationale
Pharmaceutique (F.I.P.)

DR. YUN-TAO SUN
Chairman, Organizing Committee
1984 FAPA Congress

ADDRESS

DR. TI-YUAN LEE
Deputy Director General
Department of Health
Republic of China

RECESSIONAL

NATIONAL P.S. BAND

13:00—15:00	Directorate Meeting (Closed) and lunch (VIP-A Room, 2nd Floor)
15:00—17:00	Section Chairman and Officers' Meeting (VIP-A Room, 2nd Floor)
14:00—17:00	Sightseeing—Taipei City Tour A (Chiang Kai-Shek Memorial Park and National Palace Museum)
19:00—21:00	WELCOME RECEPTION (Mandarin Hotel, 3rd Floor)

November 21, Wednesday

8:30—20:00

Registration

9:00—12:00

PLENARY LECTURES at Cultural Center, 5th Floor, Asiaworld Plaza Hotel

1. Clinical Pharmacy—The Key for Future Practice
Mr. Barrie R. Miller, Director of Pharmacy Service, Austin Hospital, Heidelberg, Victoria, Australia. President, Pan Pacific Foundation.
2. New Dosage Forms for Better Efficacy and Safety
Prof. Dr. Tsuneji Nagai, Professor and Chairman, Department of Pharmaceutics, Faculty of Pharmaceutical Sciences, Hoshi University, Tokyo, Japan.
3. A New Approach to Study Organ Clearance and its Applications in Pharmacokinetics
Prof. Dr. Win L. Chiou, Professor, Department of Pharmacodynamics, College of Pharmacy, University of Illinois at Chicago, U.S.A.
4. Microbial Transformation of Steroids
Prof. Dr. K. C. Wang, Professor, Institute of Pharmaceutical Sciences, National Taiwan University, Taipei, Taiwan, R.O.C.
5. Recent Advances in Plant Anti-Tumor Agents
Prof. Dr. K. H. Lee, Professor, College of Pharmacy, North Carolina University, U.S.A.

14:00—17:20

SCIENTIFIC SECTION SYMPOSIA I, II, III

Chairman:

Dr. Yuh-Lin Chen

Republic of China

Moderator:

Symposium I

Dr. Chi-Ming Chen

Republic of China

Symposium II

Dr. Oliver Y. P. Hu

Republic of China

Co-Chairman:

Dr. Chung-Hsiung Chen

Republic of China

Rapporteur:

Symposium I

Mr. Shao-Wen Sun

Republic of China

Symposium II

Miss Man-Ling Ho

Republic of China

Symposium III
Ms. An-Rong Lee
Republic of China

Symposium III
Miss Churn-Shiouh Gau
Republic of China

Reporters:

SYMPOSIUM I at Ball Room, 2nd Floor, Asiaworld Plaza Hotel

1. Dr. H. Y. Hsu (R.O.C.)
2. Dr. E. B. Lee (Korea)
3. Dr. Tsuneji Nagai (Japan)
4. Dr. Jung-Yaw Lin (R.O.C.)
5. Mr. C. C. Chen (R.O.C.)
6. Dr. Wun-Chang Ko (R.O.C.)
7. Dr. Hiroshi Ogawara (Japan)
8. Dr. Miwa Misawa (Japan)

SYMPOSIUM II at Banker's Club-2, 2nd Floor, Asiaworld Plaza Hotel

1. Dr. Karl S. Lin (Philippines)
2. Dr. W. L. Chiou (U.S.A.)
3. Dr. Kuo-Hsiung Lee (U.S.A.)
4. Dr. T. Tokumura (Japan)
5. Dr. C. S. Liao (U.S.A.)
6. Dr. Hsingchu Hsu (R.O.C.)
7. Dr. Oliver Y. P. Hu (R.O.C.)

SYMPOSIUM III at Banker's Club-3, 2nd Floor, Asiaworld Plaza Hotel

1. Dr. Kang-Chien Liu (R.O.C.)
2. Dr. K. C. Wang (R.O.C.)
3. Dr. S. C. Kuo (R.O.C.)
4. Dr. C. C. Tzeng (R.O.C.)
5. Dr. P. Chang (R.O.C.)

14:00-17:00

Sightseeing-Taipei City Tour B

15:30-

Opening of Pharmaceutical Exhibition at the Shung-Shan CETDC
Exhibition Complex, Taipei

November 22, Thursday

8:30-18:00

Registration

9:00-17:00

SECTION MEETINGS

9:00-10:00

SCIENTIFIC SECTION at Banker's Club-2 2nd Floor, Asiaworld
Plaza Hotel

Chairman:
Dr. Yuh-Lin Chen
Republic of China

Co-Chairman:
Dr. Chung-Hsiung Chen
Republic of China

Moderator:
Dr. Chi-Ming Chen
Republic of China

Rapporteur:
Mr. Shao-Wen Sun
Republic of China

Reporters:

1. Dr. Hsiu-Ying Yu (R.O.C.)
2. Dr. T. C. Tung (R.O.C.)

9:00—18:00

MARKETING SECTION at Cultural Center, Asiaworld Plaza Hotel

Chairman:

Mr. Jong Sun Choi
Korea

Co-Chairman:

Mr. Feng-Ming Chang
Republic of China

Moderator:

Mr. T. M. Chen
Republic of China

Rapporteur:

Ms. Shelline Huang
Republic of China

Reporters:

SESSION I

1. Mrs. V. Q. Azcona (Philippines)
2. Mr. Oan Ho Yim (Korea)
3. Mrs. P. Petchclai (Thailand)
4. Mr. G. E. Pasfield (Australia)

SESSION II

1. Mr. E. K. Kuo (R.O.C.)
2. Mr. K. F. Chang (R.O.C.)
3. Mr. Hong Soo Lee (Korea)

SESSION III

1. Mr. G. Z. Sycip (Philippines)
2. Mr. J. S. Choi (Korea)
3. Mr. Y. C. Wu (R.O.C.)

SESSION IV

1. Mr. K. Iwaki (Japan)
2. Mr. M. J. Wu (R.O.C.)
3. Mr. Benn Shyu (R.O.C.)
4. Mr. Peter T. S. Huang (R.O.C.)
5. Mrs. P. Petchclai (Thailand)
6. Mr. S. Rulsan (Indonesia)

9:00—17:00

PUBLIC HEALTH SECTION at Banker's Club-3, Asiaworld Plaza Hotel

Chairman:

Dr. Tadashi Motoyama
Japan

Co-Chairman:

Ms. Sun Liu
Republic of China

Moderator:

Ms. Mei-Ling Hsiao Lai
Republic of China

Rapporteur:

Ms. Sypyng Jon
Republic of China

Reporters:

1. Mr. A. J. Brands (U.S.A.)
2. Mr. Patrick Mooney (U.S.A.)
3. Prof. Hyung-Suk Kim (Korea)
4. Dr. Trinidad C. Cuyegkeng (Philippines)
5. Prof. Hyung-Suk Kim (Korea)